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MARINE CLIMATIC
OF THE WOR

VOLUME III
INDIAN OCEA

(REVISED 1976)

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CLIMATIC ATLAS
THE WORLD

VOLUME III

DIAN OCEAN

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VOLUME III

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VOLUME III

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MARCH 1976

FOREWORD

A joint feasibility study for producing a combined climatological/oceanographic atlas of the water areas of the world was undertaken by the Naval Weather Service Command and the Naval Oceanographic Office in 1969. The results of this feasibility study revealed a twofold increase in surface marine observations over the Indian Ocean basin since Volume III of the U.S. NAVY MARINE CLIMATIC ATLAS OF THE WORLD was published. The additional data plus recommendations for revised content and format, provided by various Naval Weather Service fleet units and field activities, warranted the updating of the entire series of marine climatic charts of the world.

The Naval Weather Service Detachment, Asheville, was tasked to produce a technical model of the atlas providing a sample of each type of page presentation proposed with supporting documentation. The atlas mock-up was approved by Headquarters, Naval Weather Service Command in 1971 as the model for Volume I (1974) as well as for this atlas and future volumes of this series. Volume III has followed production of Volume I because of intense scientific interest in the Indian Ocean Basin. Volume II, The North Pacific, will follow this volume in the publication sequence.

ACKNOWLEDGMENT

The revision of the U.S. NAVY MARINE CLIMATIC ATLAS OF THE WORLD series is managed by the Naval Weather Service Detachment, Asheville by direction of the Commander, Naval Weather Service Command. This volume was prepared at the National Climatic Center.

Specific acknowledgement is made to the following members of the National Climatic Center; Project Leaders Messrs. J. M. Meserve, R. G. Quayle and D. C. Fulbright; Messrs. J. D. Elms, A.W.Y. Chen and H. F. Diaz for their assistance in the editorial evaluation and analyses of the data; Messrs. R. H. Courtney, R. G. Baldwin, D. Swann, E. Gilreath, Mrs. D. T. Hawkins and Miss E. Cook for drafting.

The oceanographic part was based upon data provided by the U.S. Naval Oceanographic Office, whose contribution is acknowledged with thanks.

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TABLE OF CONTENTS

	PAGE
FOREWORD AND ACKNOWLEDGEMENT	iii
PART I – METEOROLOGY (TEXT)	v
PART II – OCEANOGRAPHY (TEXT)	xi
METEOROLOGICAL PRESENTATION	1-337
TIDES AND CURRENTS	338-347
ICE	348

METEOROLOGY –

	JAN	FI
SURFACE WINDS – MAPS	2	3
WIND DIRECTION AND SPEED – GRAPHS	3	3
SURFACE AIR TEMPERATURE – MAPS	4	3
SURFACE AIR TEMPERATURE – GRAPHS	5	3
TEMPERATURE EXTREMES AND T-H INDEX – MAPS	6	3
WIND SPEED AND AIR TEMPERATURE – GRAPHS	7	3
SEA SURFACE TEMPERATURE – MAPS	8	3
SEA SURFACE TEMPERATURE – GRAPHS	9	3
HUMIDITY – MAPS	10	3
WET BULB AND RELATIVE HUMIDITY – GRAPHS	11	3
PRECIPITATION – MAPS	12	4
PRECIPITATION – GRAPHS	13	4
VISIBILITY – MAPS	14	4
VISIBILITY – GRAPHS	15	4
CLOUD COVER – MAPS	16	4
CLOUD COVER – GRAPHS	17	4
CEILING AND VISIBILITY – MAPS	18	4
CEILING AND VISIBILITY – GRAPHS	19	4
WIND – VISIBILITY – CLOUDINESS – MAPS	20	4
LOW CLOUD CEILING – VISIBILITY – WIND – GRAPHS	21	4
SEA LEVEL PRESSURE AND MEAN WIND – MAPS	22	5
SEA LEVEL PRESSURE – GRAPHS	23	5
WAVES (<1.5 AND <2.5 METERS) – MAPS	24	5
WAVE DIRECTION AND HEIGHT – GRAPHS	25	5
WAVES (≥3.5 AND ≥6 METERS) – MAPS	26	5
WAVE PERIOD AND HEIGHT – GRAPHS	27	5
TROPICAL CYCLONES N	28	5
TROPICAL CYCLONES S	29	5

METEOROLOGY — PAGE INDEX

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SURFACE WINDS – MAPS	2	30	58	86	114	142	170	198	226	254	282	310
WIND DIRECTION AND SPEED – GRAPHS	3	31	59	87	115	143	171	199	227	255	283	311
SURFACE AIR TEMPERATURE – MAPS	4	32	60	88	116	144	172	200	228	256	284	312
SURFACE AIR TEMPERATURE – GRAPHS	5	33	61	89	117	145	173	201	229	257	285	313
TEMPERATURE EXTREMES AND T-H INDEX – MAPS	6	34	62	90	118	146	174	202	230	258	286	314
WIND SPEED AND AIR TEMPERATURE – GRAPHS	7	35	63	91	119	147	175	203	231	259	287	315
SEA SURFACE TEMPERATURE – MAPS	8	36	64	92	120	148	176	204	232	260	288	316
SEA SURFACE TEMPERATURE – GRAPHS	9	37	65	93	121	149	177	205	233	261	289	317
HUMIDITY – MAPS	10	38	66	94	122	150	178	206	234	262	290	318
WET BULB AND RELATIVE HUMIDITY – GRAPHS	11	39	67	95	123	151	179	207	235	263	291	319
PRECIPITATION – MAPS	12	40	68	96	124	152	180	208	236	264	292	320
PRECIPITATION – GRAPHS	13	41	69	97	125	153	181	209	237	265	293	321
VISIBILITY – MAPS	14	42	70	98	126	154	182	210	238	266	294	322
VISIBILITY – GRAPHS	15	43	71	99	127	155	183	211	239	267	295	323
CLOUD COVER – MAPS	16	44	72	100	128	156	184	212	240	268	296	324
CLOUD COVER – GRAPHS	17	45	73	101	129	157	185	213	241	269	297	325
CEILING AND VISIBILITY – MAPS	18	46	74	102	130	158	186	214	242	270	298	326
CEILING AND VISIBILITY – GRAPHS	19	47	75	103	131	159	187	215	243	271	299	327
WIND – VISIBILITY – CLOUDINESS – MAPS	20	48	76	104	132	160	188	216	244	272	300	328
LOW CLOUD CEILING – VISIBILITY – WIND – GRAPHS	21	49	77	105	133	161	189	217	245	273	301	329
SEA LEVEL PRESSURE AND MEAN WIND – MAPS	22	50	78	106	134	162	190	218	246	274	302	330
SEA LEVEL PRESSURE – GRAPHS	23	51	79	107	135	163	191	219	247	275	303	331
WAVES ($<$1.5 AND $<$2.5 METERS) – MAPS	24	52	80	108	136	164	192	220	248	276	304	332
WAVE DIRECTION AND HEIGHT – GRAPHS	25	53	81	109	137	165	193	221	249	277	305	333
WAVES ($\geq$3.5 AND $\geq$6 METERS) – MAPS	26	54	82	110	138	166	194	222	250	278	306	334
WAVE PERIOD AND HEIGHT – GRAPHS	27	55	83	111	139	167	195	223	251	279	307	335
TROPICAL CYCLONES N	28	56	84	112	140	168	196	224	252	280	308	336
TROPICAL CYCLONES S	29	57	85	113	141	169	197	225	253	281	309	337

PART I - METEOROLOGY

INTRODUCTION

The eight volume series of the U.S. Navy Marine Climatic Atlas of the World has had wide acceptance as an authoritative reference for large scale operational planning and applied research. This volume, based on nearly 120 years of data (1854-early 1973), is an update of Volume III (U.S. Navy *Marine Climatic Atlas of the World*, 1957) and is designed to fulfill the same requirements. This volume is not, however, a one for one revision. Some of the data presentations have been changed and wave statistics have been added. There are no upper air charts presented since in recent years several comprehensive volumes of upper air data have been published separately: (*Upper Wind Statistics Charts of the Northern Hemisphere*, Volumes I and II, NAVAER 50-1C-535, 1959; *Components of the 1000 MB Winds of the Northern Hemisphere*, NAVAIR 50-1C-51, 1966; *Selected Level Heights, Temperatures and Dew Points for the Northern Hemisphere, including Monthly Mean Wind Speed and Direction*, NAVAIR 50-1C-52, 1970; *Selected Meridional Cross Sections of Heights, Temperatures and Dew Points of the Northern Hemisphere*, NAVAIR 50-1C-59, 1971; *Climate of the Upper Air: Southern Hemisphere*, Volume I, *Temperatures, Dew Points, and Heights at Selected Pressure Levels*, NAVAIR 50-1C-55, 1969; Volume II, *Zonal Geostrophic Winds*, NAVAIR 50-1C-56, 1971; Volume III, *Vector Mean Geostrophic Winds*, NAVAIR 50-1C-57, 1971; Volume IV, *Selected Meridional Cross Sections of Temperature, Dew Points, and Height*, NAVAIR 50-1C-58, 1971).

The descriptive explanations which follow give details concerning the quality control and processing of the observations, the development of the charts and graphs and a few possible applications of the various charts. Also discussed are limitations imposed by the quality of the data and the methods adapted to help overcome them.

This Atlas is the result of a concerted and extensive effort by many people (aided by automatic data processing equipment) to present a detailed and useful ocean climatology.

THE GENERAL PLAN OF THE CHARTS

The "point statistics" of land climatology are made possible by the maintenance of weather records at fixed locations for long periods. Such statistics are not generally available for Ocean Basins. Where the number of observations is sufficient, it is possible to select areas small enough to permit an approximation to the "point statistics" of land stations. For this Atlas 45 such representative areas are used. The locations are outlined on the base chart and numbered. The graphs and tables computed for these areas have been placed on the facing page for ready reference to the base chart.

THE OBSERVATIONS AND THEIR PROCESSING

Variations in definitions, codes and units of measurements used by maritime nations for recording and punching marine observations have resulted in 18 different forms (or "decks") of punched cards available for use at the National Climatic Center. These data have been converted to a common format and placed on magnetic tape. For a more detailed explanation of the conversion procedures, the reader is referred to the *Tape Data Family-11* (TDF-11) *Reference Manual* (National Climatic Center, 1968). This tape deck was the primary data source for this volume. Funding for the development of TDF-11 was provided primarily by the Naval Weather Service Command with supplemental support from the National Oceanic and Atmospheric Administration (NOAA), formerly ESSA, and the Department of Defense.

The data were subjected to complex quality control procedures before processing. First, duplicate observations (which entered the data base from different sources) were eliminated. The remaining observations were then checked for internal consistency. Elements which failed to meet the internal consistency checks were either adjusted or eliminated. The data were subjected to an extreme value check in which the highest and lowest values of appropriate elements were listed and checked. These quality controlled data have been retained in a separate tape file designated as the U.S. Navy Marine Atlas Work Tapes.

Regardless of the amount of quality control to which marine observations are subjected there are many inherent problems which can be corrected in only a general way. Among these are: the difficulty in taking observations of meteorological elements from an unstable platform, different levels of observer experience, recording errors, variations in observing and coding practices, punching errors, the scarcity of observations over vast areas, and the effect of weather elements themselves on measurements. Ships may avoid bad weather when possible (Quayle, 1974), thus decreasing the amount of bad-weather data; or they may slow down in foul weather, thus taking more observations and increasing the data sample.

Complete observations (including all elements) from transient ships are steadily becoming more common. Ships' weather logs of past decades, incomplete by today's standards, show wind direction and speed to be the elements almost invariably recorded. From a survey of the data available for this atlas, the percentage of observations containing other basic weather elements is as follows:

Element	*Percent*
Air Temperature	98
Sea Temperature	92
Total Cloud Amount	78
Visibility	72
Sea Level Pressure	56
Present Weather	57
Low Cloud Amount	36
Wet Bulb Temperature	36
Waves	26

Because of incompatible observing or coding procedures, many observations of total cloud amount, visibility, present weather, low cloud amount, and wave data have been eliminated from the computations. This significantly reduced the percentages of these elements in the above table.

Some peculiarities of selected elements are listed below:

PRECIPITATION — Of all of the elements recorded in historical marine observations, precipitation is one of those most subject to error in interpretation. This derives from a number of causes such as coding practices, observers' preference for certain present weather codes and other biases.

SEA SURFACE TEMPERATURE — This element is recorded with a fairly high frequency in marine observations. The various methods of recording, however, tend to decrease the reliability of the individual values. Gradients and relative values are considered to be reliable.

SEA LEVEL PRESSURE — This element is one of the least accurate because of instrument, coding and conversion errors. To be capable of registering accurate pressure readings, barometers used on shipboard generally require more frequent calibration than they receive. Despite the inaccuracies of the individual readings, however, the large scale patterns and gradients are relatively accurate.

AIR TEMPERATURE — This element is considered to be generally reliable. However, in the tropics, as the result of poor instrument exposure, observed temperatures on transient ships under sunny conditions appear consistently high. This data subset influences primarily the distribution of maximum temperatures (99th percentile) while the minimum

elements themselves on measurements. Ships may avoid bad weather when possible (Quayle, 1974), thus decreasing the amount of bad-weather data; or they may slow down in foul weather, thus taking more observations and increasing the data sample.

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AIR TEMPERATURE — This element is considered to be generally reliable. However, in the tropics, as the result of poor instrument exposure, observed temperatures on transient ships under sunny conditions appear consistently high. This data subset influences primarily the distribution of maximum temperatures (99th percentile) while the minimum (1st percentile) and mean temperatures are relatively unaffected.

VISIBILITY — It is difficult to measure visibility at sea because of the lack of reference points. Also, some observers report reduced visibilities at night because of darkness. The coarseness of the coding intervals, however, tends to minimize serious biases in the summarized data.

WAVE DATA — Suitable quantitative wave records are available only since the late 1940's. This, coupled with an apparent reluctance on the part of many observers to take wave observations, particularly in the early years, leaves waves as the least often recorded element in marine observations. The estimate of wave heights is very subjective and depends upon the experience of the observer and the size of the ship from which the observation is taken. Wave heights reported by most transient ships tend to be low by about 10% when compared to reference measurements. Adjustment for this apparent bias has not been made in this Atlas.

Despite the lower confidence level in the individual values of these elements, through subjective analyses and reference to previous studies, the means, extremes and gradients presented by the isopleths are considered to be quite reliable.

THE ISOPLETH ANALYSES

The climatic data in this atlas are presented by isopleths (lines connecting points of equal magnitude) supplemented by graphs and tables. The isopleth analyses were completed cooperatively by a team of meteorologists. The basic charts were automatically plotted from one or two degree area summaries for the entire ocean basin. As there were no Ocean Weather Station (OWS) data for the Indian Ocean, a valuable tool which was available to analysts in the North Atlantic was lost. Analysts made considerable use of the observation count which was plotted with all summarized data to aid in data interpretation. For the ocean areas southward of 45°S, data were very sparse, thus not affording detailed analyses. Isopleths in these areas should be considered only as presenting a 'best estimate' of the actual climatology.

THE GRAPHS AND TABLES

To supplement the isopleth analyses, graphs and tables are presented for each representative area. The graphs and tables, in most instances, represent the objective compilation of available raw data for specified areas without regard to suspected biases or inconsistencies.

Since the final isopleth analyses reflects both objective and subjective considerations, differences may be found when comparing the graphical data for a representative area with the analyses.

THE INDIVIDUAL SURFACE CHARTS

The legend in each chart is designed to explain data content — tables, graphs and isopleths. Each legend contains detailed instructions on how to read the tables or graphs. The following paragraphs contain additional remarks likely to be of interest to those called upon to interpret the data and provide answers to specific operational questions.

Most of the graphs and tables allow approximation of the empirical probability of occurrence of selected criteria. This is a major factor in assessing the risk involved in operational planning. For certain elements, standard deviations are given on the graphs to provide a measure of relative variability. The standard deviation of these graphs is denoted by 's' and was computed using the expression:

$$s = \left[\frac{N\Sigma x_i^2 - (\Sigma x_i)^2}{N(N-1)} \right]^{1/2}$$

where N denotes the number of observations in the sample and x_i denotes the value of the random variable X. The use of (N-1) in the denominator gives the best estimate of the population standard deviation.

SURFACE WINDS

Surface wind is the element most commonly observed and recorded. It was the element considered basic in the selection of representative areas for construction of complete frequency distributions. Wind distribution is presented by a combination of two graphic forms — the bar graph and the contingency table. The bar graph corresponds to the percent scale at the top of the square and gives ready reference to the wind direction frequency. The contingency table gives the percent frequency of each wind speed class within each direction. By adding the totals lines at the bottom of the graph it is possible to approximate the percent frequency of wind speed occurrence for selected criteria. For the example graph in the legend, 71% of all winds were < 17 knots.

Persistence statistics would be of interest in planning operations, but these are not possible without serially complete observations from fixed points.

AIR TEMPERATURE

The threshold value of ≥ 20°C for the isopleths of air temperature was selected in response to requests by a number of users who considered that relative degree of warmth to be operationally significant for outside marine activity. The mean temperature for each wind direction and calm is shown by dots in the graph opposite each direction and corresponding to the temperature scale at the bottom. Note the temperature range and scale may vary from area to area and month to month.

T-H INDEX AND TEMPERATURE EXTREMES

The American Society of Heating and Ventilating, as early as 1923, introduced a term called "effective temperature" which is a measure of comfort based on temperature and humidity. This is the term we call THI (Temperature — Humidity Index). It has been empirically determined that a majority of people will be uncomfortable when the index reaches 24°C. THI is computed by the following equation, adapted from one described by E. C. Thom, 1957:

$$THI = 0.4\,(T_d + T_{wb}) + 4.7778$$

where: T_d = Dry Bulb Temperature (°C)
T_{wb} = Wet Bulb Temperature (°C)
THI is in degrees Celsius

Isopleths of the 1% and 99% levels of air temperature have been selected to present extreme temperature conditions. The graphs show air temperature versus wind speed. Use may be made of these charts to determine the extent of discomfort likely because of extreme heat or cold. They may also be used to estimate the likelihood of superstructure icing.

Ice accretion is a complicated process that depends upon sea conditions, temperature, wind and the size and behavior of the ship. Superstructure icing can affect all ships but is more dangerous for smaller vessles. Icing potential exists when the air temperature falls below the freezing temperature of sea water (usually about -2°C) with wind speed equal to or greater than 11 knots. The lower the temperature and higher the wind speed, the greater the icing potential. Ice accretion may become quite severe with temperatures ≤-9°C and wind ≥ 34 knots.

AIR TEMPERATURE

The threshold value of $\geq 20°C$ for the isopleths of air temperature was selected in response to requests by a number of users who considered that relative degree of warmth to be operationally significant for outside marine activity. The mean temperature for each wind direction and calm is shown by dots in the graph opposite each direction and corresponding to the temperature scale at the bottom. Note the temperature range and scale may vary from area to area and month to month.

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SEA SURFACE TEMPERATURE

Sea surface temperature is recorded with fairly high frequency in marine observations. The 1% and 99% isopleths give estimates of the extremes that may be encountered at any location. The graphs are simple cumulative percent frequency presentations. The temperature range and scale on the graphs may vary from area to area and month to month.

Sea surface temperature can be used to estimate the approximate time a person in ordinary clothes and life preserver may be expected to survive in the water:

Water Temperature	*Exhaustion or Unconsciousness*	*Expected Time of Survival*
< 0°C	< 15 min	< 15-45 min
0-5°C	15-30 min	30-90 min
5-10°C	30-60 min	1-3 hrs
10-15°C	1-2 hrs	1-6 hrs
15-20°C	2-7 hrs	2-40 hrs
20-25°C	3-12 hrs	3 to indefinite hrs
> 25°C	Indefinite	Indefinite

HUMIDITY

Moisture content of the atmosphere is an element which has been recorded relatively infrequently in marine observations. The 1% and 99% dew-point temperature isopleths give estimates of extremes of this element that may be encountered at any location.

The graph depicts wet bulb and relative humidity information. The cumulative percent frequency of wet-bulb temperatures may be read from the solid line with reference to values on the scale at the top of the graph. Relative humidity may be read from the dashed line with reference to the scale at the bottom of the graph.

PRECIPITATION

Precipitation charts and graphs are intended to depict the frequency of precipitation at the time of the observation. Based on work done in connection with Volume I (Revised) North Atlantic Ocean, present weather codes 20-27 (precipitation within the past hour) were counted in precipitation frequencies to correct an apparent observational bias. The graphs show precipitation by wind direction. The percent frequency of all observations which reported precipitation is printed in the upper right corner of each graph. The

distribution of precipitation by wind direction (and calm) is given by the bar graph. This graph is based on precipitation frequency and not on wind direction frequency. The reader should refer to the surface wind chart if he is interested in the wind direction and speed distribution.

No isopleths were drawn for the percent frequency of precipitation observations reporting snow because of inadequate data. However, graphs for some of the representative areas do reflect the presence of snow.

VISIBILITY

The cumulative percent frequency of horizontal visibility is presented by nautical mile class intervals rather than by kilometers. The percentage of horizontal visibility equal to or greater than 25 nautical miles can be obtained by subtracting from 100% the cumulative percent frequency at the point < 25 on each graph. Caution is advised, however, in interpreting these areas since, because of curvature of the earth, it is virtually impossible to see 25 miles horizontally from the bridge of most ships. The supplemental table at the bottom of the graph gives percentage of visibilities < 2 nautical miles which occurred with each wind direction and calm.

CLOUD COVER

Even with the increased data base, the quality and quantity of low cloud data is quite poor. The total cloud amount element does not suffer from this deficiency to so great an extent. The number of observations available which contain only total cloud amount continues to be higher than those containing both total and low. The use of satellite data also bolsters confidence in the total cloud statistics. Cloud patterns derived from the marine observations and those depicted by satellites show fairly close agreement (U.S. Department of Commerce and United States Air Force, 1971).

The observation count on the graphs is that of observations containing total cloud amount. The low cloud curve on the graph is based on less data than the total cloud curve. This may lead to inconsistencies where low cloud amount appears higher than the total cloud amount. In all cases these were resolved in favor of the total cloud by making the frequency curves coincide.

The cumulative percent frequency of a cloud amount equal to or less than the amount intersected by the curve may be read for total cloud along the solid line or low cloud along the dashed line. The percent frequency of obscurations may be determined by subtracting the cumulative percent frequency corresponding to 8/8 coverage from 100%. The bar graph portion of the figure shows the percent frequency of low cloud amount equal to or greater than 5/8 and equal to or greater than 7/8 for each wind direction and calm. Total sky obscurations are considered as 8/8 coverage for these purposes.

CEILING AND VISIBILITY

Simultaneous ceiling-visibility contingencies are presented in isopleth and tabular form. They are designed as an aid to situations where both vertical and horizontal visibility are the major items of concern. Since an "aircraft" type ceiling value is not available, the ceiling height is estimated from the height of low cloud (h) when the amount of low cloud (N_h) is greater than 4/8. Total sky obscurations are considered to be ceilings. If they are ground-based, they are considered to have a height equal to zero.

WIND - VISIBILITY - CLOUDINESS

This series of charts is designed to give the planner an estimate of the probability of occurrence of certain significant operational conditions. The conditions for optimum and poor carrier operations are those recommended by the users of the earlier atlas series. Of the elements used in these statisitics, height of low cloud ceiling has the least reliability in the case of transient ship observations.

It should be noted that in both the contingency tables and the isopleths, the poor carrier operation conditions are *and/or* situations. This means if any one of the poor conditions of ceiling, visibility or wind speed exists, the event is counted as *poor*. However, in the case of optimum conditions it is an *and* situation. That is, the ceiling must be $\geq$ 5000 feet and visibility $\geq$ 5 nautical miles and wind 11-21 knots.

SEA LEVEL PRESSURE AND MEAN WIND

Two sets of wind statistics are presented. The vector mean wind is shown by arrows (direction of flow toward the station dot with the resultant magnitude of the vector plotted at the end of the arrow). The scalar mean speed without regard to direction is shown by isopleth analysis. In areas of high persistence of direction, the magnitude of the mean vector should approximate the scalar mean speed. Pressure graphs and charts are also shown.

WAVES (<1.5 AND <2.5 METERS)

In these analyses, the higher of the sea or swell is selected

graph portion of the figure shows the percent frequency of low cloud amount equal to or greater than 5/8 and equal to or greater than 7/8 for each wind direction and calm. Total sky obscurations are considered as 8/8 coverage for these purposes.

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Simultaneous ceiling-visibility contingencies are presented in isopleth and tabular form. They are designed as an aid to situations where both vertical and horizontal visibility are the major items of concern. Since an "aircraft" type ceiling value is not available, the ceiling height is estimated from the height of low cloud (h) when the amount of low cloud (N_h) is greater than 4/8. Total sky obscurations are considered to be ceilings. If they are ground-based, they are considered to have a height equal to zero.

WIND - VISIBILITY - CLOUDINESS

This series of charts is designed to give the planner an estimate of the probability of occurrence of certain significant operational conditions. The conditions for optimum and poor carrier operations are those recommended by the users of the earlier atlas series. Of the elements used in these statisitics, height of low cloud ceiling has the least reliability in the case of transient ship observations.

It should be noted that in both the contingency tables and the isopleths, the poor carrier operation conditions are *and/or* situations. This means if any one of the poor conditions of ceiling, visibility or wind speed exists, the event is counted as *poor*. However, in the case of optimum conditions it is an *and* situation. That is, the ceiling must be $\geq$ 5000 feet and visibility $\geq$ 5 nautical miles and wind 11-21 knots.

SEA LEVEL PRESSURE AND MEAN WIND

Two sets of wind statistics are presented. The vector mean wind is shown by arrows (direction of flow toward the station dot with the resultant magnitude of the vector plotted at the end of the arrow). The scalar mean speed without regard to direction is shown by isopleth analysis. In areas of high persistence of direction, the magnitude of the mean vector should approximate the scalar mean speed. Pressure graphs and charts are also shown.

WAVES (<1.5 AND <2.5 METERS)

In these analyses, the higher of the sea or swell is selected for summarization. If the heights are equal, the wave with the longer period is selected. In order to present as broad a spectrum of heights and periods as practicable, two sets of wave charts are furnished. The graphs accompanying the low wave charts (< 1.5 and < 2.5 meters) show wave height versus wave direction. The bar graph and the percent scale at the top of the chart give the percent frequency of waves from each direction. Indeterminate directions are combined with calms. The percent frequency of wave heights (bottom scale) may be read for each height interval and wave direction from the contingency table. The isopleth analyses of the percent frequency of heights < 1.5 and < 2.5 meters are for generally non-hazardous sea conditions.

WAVES ($\geq$3.5 AND $\geq$6 METERS)

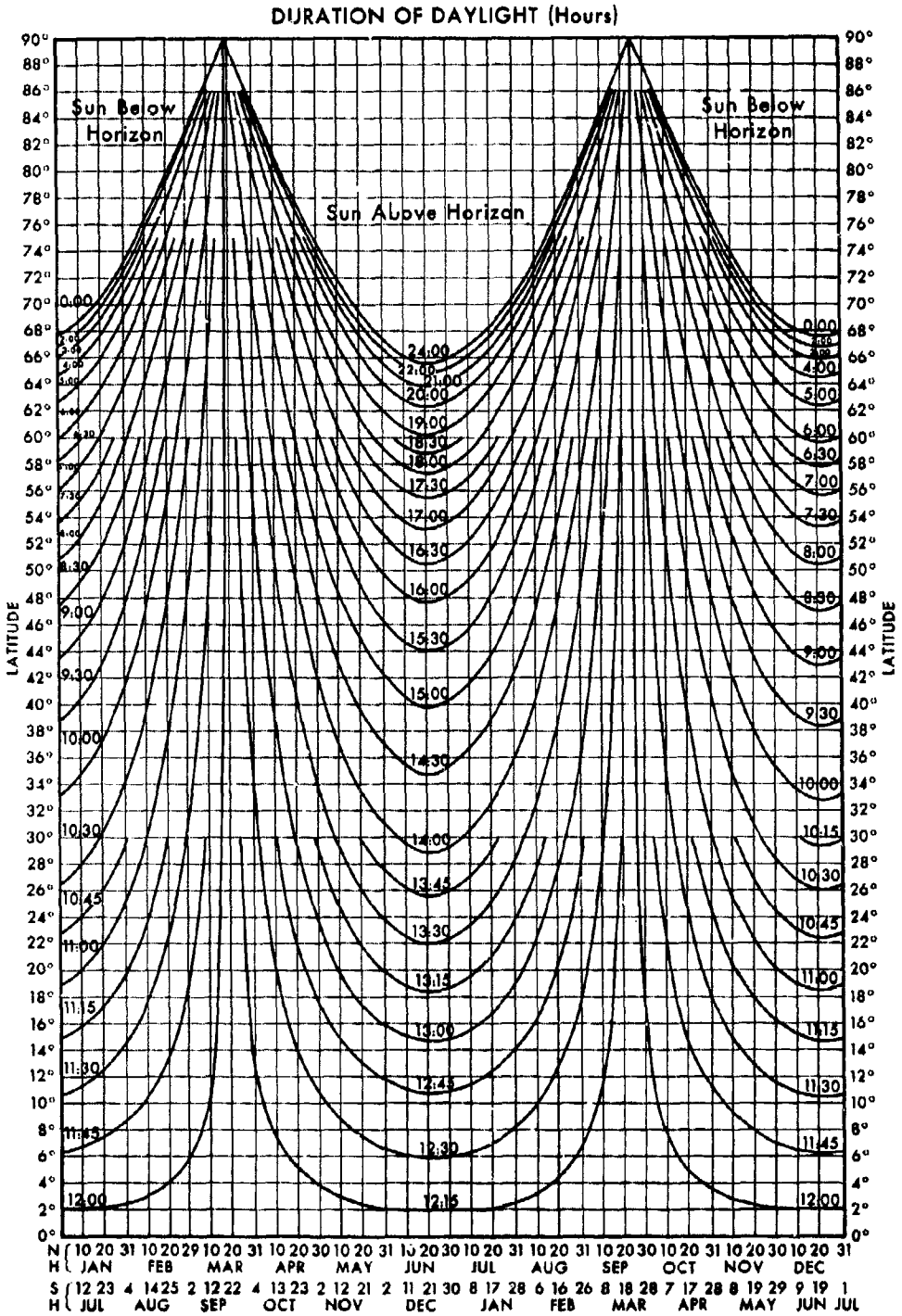
Wave heights in the $\geqslant 3.5$ and $\geqslant 6$ meter range represent increasingly hazardous conditions. Accompanying these charts are contingency tables of wave period versus wave height.

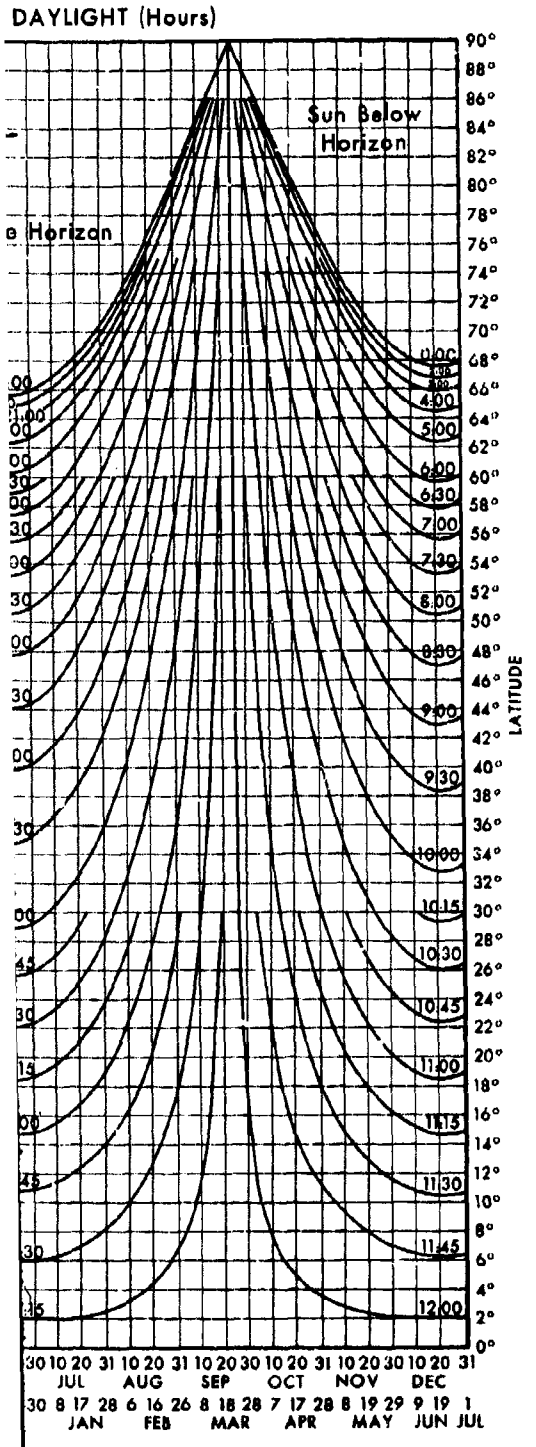
TROPICAL CYCLONES

The tropical cyclone movement roses in this atlas are reprinted from the *Mariners Worldwide Climatic Guide to Tropical Storms at Sea*, NAVAIR 50-1C-61, 1974. The data presented here include all tropical cyclones estimated to have wind speeds greater than about 33 knots. All data are combined for each 5° quadrangle. The period of record is 1854-1969 for the Southern Hemisphere; 1877-1970 for the Northern Hemisphere. The reader is referred to the above mentioned "Guide" for more detailed information.

DURATION OF DAYLIGHT

The Duration of Daylight Chart for the Northern and Southern Hemispheres defines daylight as the period from sunrise to sunset. The upper scale at the bottom of the chart is for the Northern Hemisphere; the lower scale is for the Southern Hemisphere. As an example, the daylight on July 20 of any year at 48°N is about 15 hours and 30 minutes for any longitude, approximately the same amount of daylight occurs at 48°S on January 17 for any longitude. The data source was the U.S. Naval Observatory (1945) and is accurate for the entire 20th Century. Further details may be obtained from *The Daylighter* by the U.S. Navy Weather Research Facility (1960). Additional light (during twilight) may be usable for many purposes. Duration of daylight in high latitudes (poleward of about 60°) becomes increasingly dependent upon atmospheric conditions and refraction and there may be some departure from the values depicted on the charts.


DURATION OF DAYLIGHT (Hours)
Sun Below Horizon
Sun Above Horizon
Sun Below Horizon
LATITUDE
LATITUDE
90° 88° 86° 84° 82° 80° 78° 76° 74° 72° 70° 68° 66° 64° 62° 60° 58° 56° 54° 52° 50° 48° 46° 44° 42° 40° 38° 36° 34° 32° 30° 28° 26° 24° 22° 20° 18° 16° 14° 12° 10° 8° 6° 4° 2° 0°
0:00 2:00 3:00 4:00 4:30 6:00 6:30 7:00 7:30 8:00 8:30 9:00 9:30 10:00 10:30 10:45 11:00 11:15 11:30 11:45 12:00
24:00 22:00 21:00 20:00 19:00 18:30 18:00 17:30 17:00 16:30 16:00 15:30 15:00 14:30 14:00 13:45 13:30 13:15 13:00 12:45 12:30 12:15
0:00 4:00 5:00 6:00 6:30 7:00 7:30 8:00 8:30 9:00 9:30 10:00 10:15 10:30 10:45 11:00 11:15 11:30 11:45 12:00
N H (10 20 31 10 20 29 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 30 10 20 31 10 20 31
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
S H (12 23 4 14 25 2 12 22 4 13 23 2 12 21 2 11 21 30 8 17 28 6 16 26 8 18 28 7 17 28 8 19 29 9 19 1
JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL



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PART II - OCEANOGRAPHY

TIDES

The information presented on the charts (types of tides, typical tide curves and tide ranges) were derived primarily from tide tables and tables of tidal harmonic constants. Tidal information is generally adequate for the Indian Ocean except for the region north of the Gulf of Mannar and the western part of the head of the Bay of Bengal, the Crozet Islands in the southwestern part of the Indian Ocean, and in the Gulfs of Carpentaria and Thailand.

CURRENTS

The ocean current charts are compiled principally from ship drift reports that were forwarded by the various merchant marines to the Naval Oceanographic Office. From these drift observations the sets and average speeds of the prevailing currents are calculated for each 1° quadrangle. The density of observations is greatest along the major shipping lanes and therefore the reliability of the current charts is best in these areas. For the Indian Ocean as a whole, the data is adequate except in the southern part where the data are extremely sparse, and in the central part of the Bay of Bengal. Other areas without adequate data density are: the North and northwest coast of Australia, in the Banda, Ceram and Molucca Seas and off the northwest coasts of Borneo and Palawan, as well as in the Gulfs of Thailand and Tonkin.

The surface currents are shown for four months which are believed to be most representative of the oceans response to the monsoons. The currents for the months of January and July represent ocean current conditions in response to the Northeast and Southwest monsoon seasons respectively. The April and October charts represent ocean surface conditions during the monsoonal transition months.

Where the effect of the monsoons is strongest, e.g., Arabian Sea, Bay of Bengal, and South China Sea, the figures were derived from monthly surface current data. Other regions of the Indian Ocean are less responsive to the monsoon influences and the currents were therefore constructed from seasonal averages adjusted by what monthly data were available to portray the specific months indicated.

Variations from the directions and speeds of the indicated prevailing currents can be expected, especially in areas where the currents are weak.

Tidal currents are shown where they predominate. These are subject to modifications of speed and direction by winds and other nonperiodic variables.

ICE

Sea Ice

The occurrence of sea ice is limited to a small region in the southwestern part of the Indian Ocean.

Glacier Ice

The mean maximum limit of drifting glacier ice is based on extremely sparse data derived from published sources.

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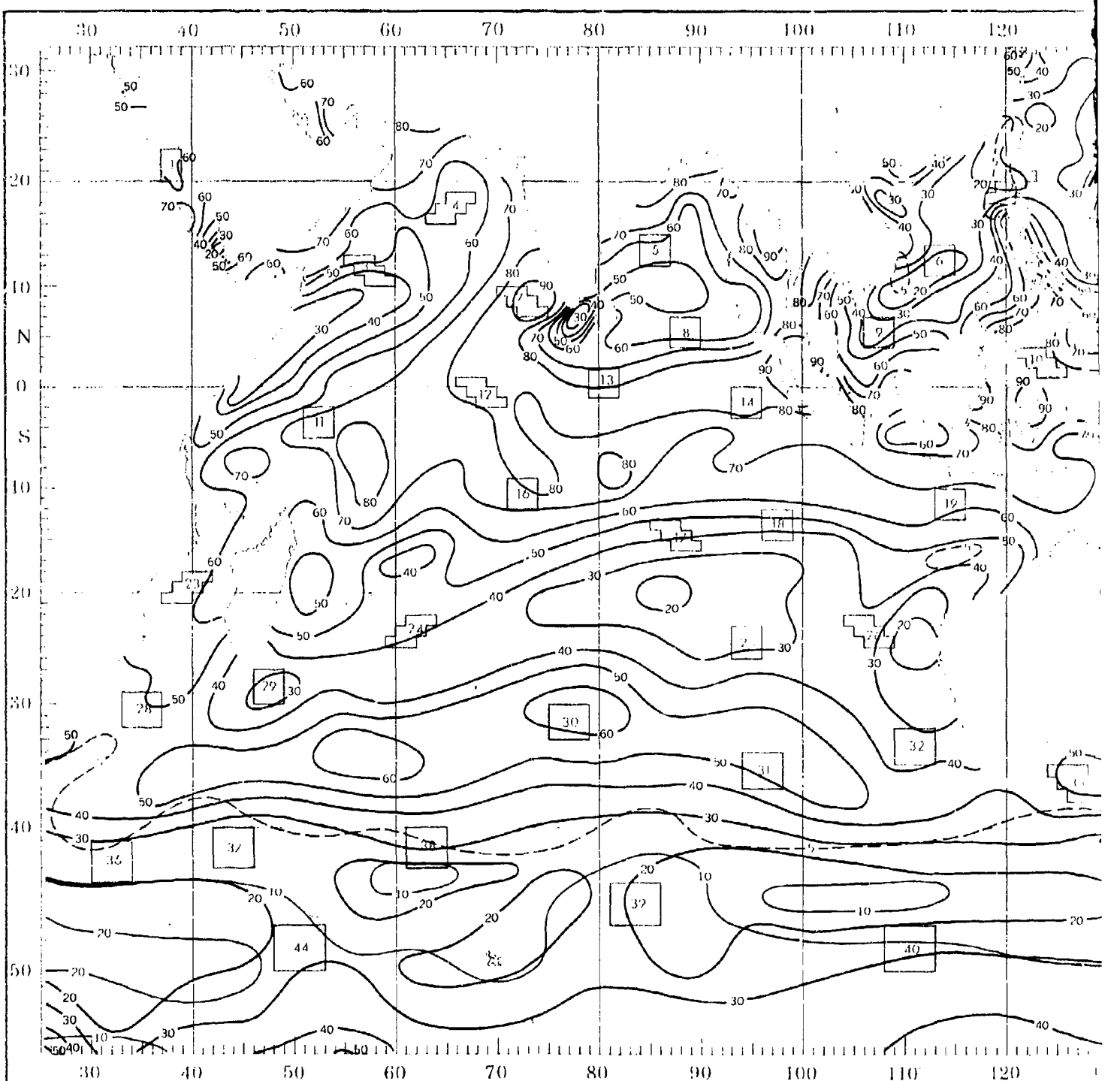
PART I METEOROLOGY

JANUARY



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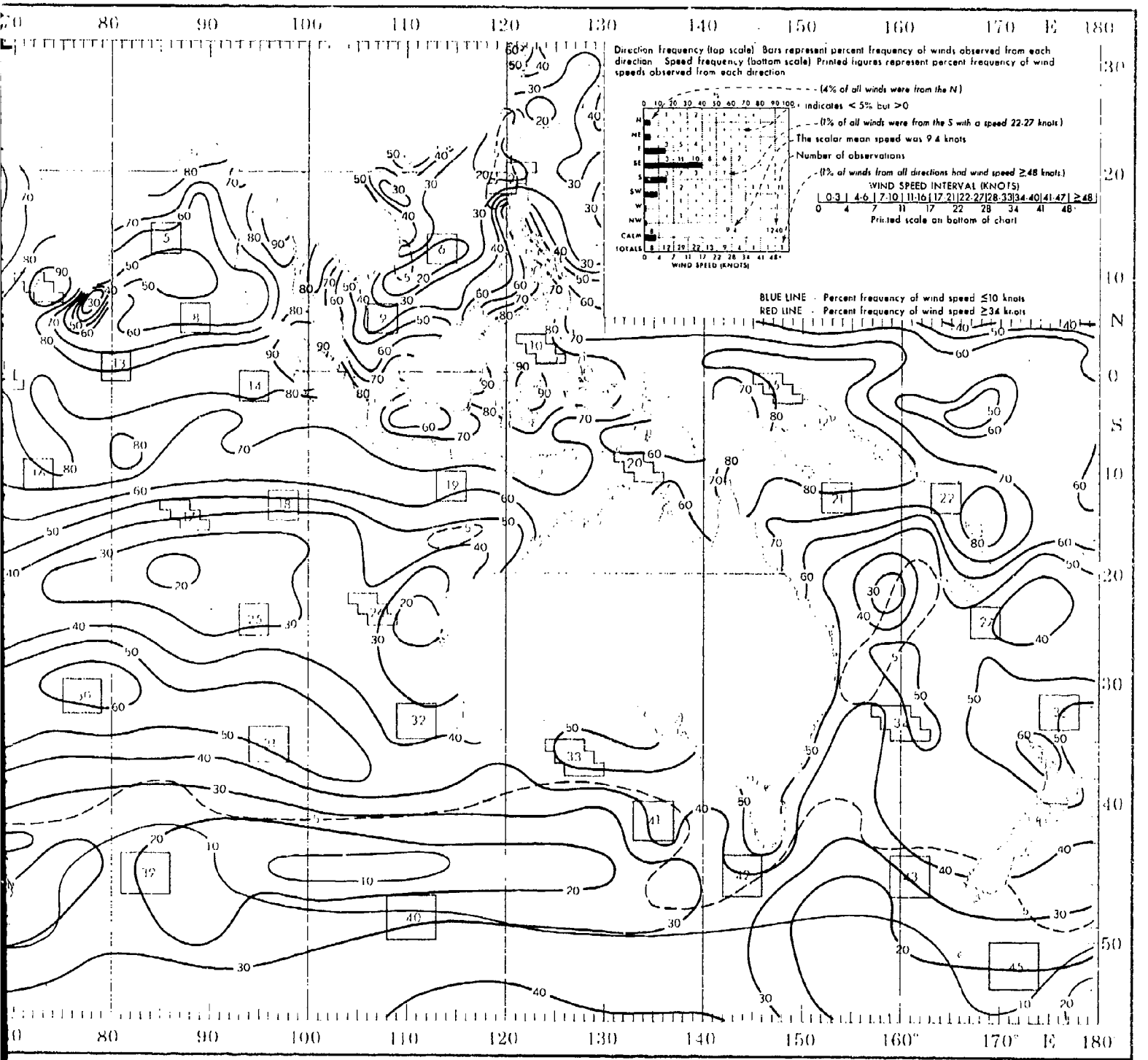

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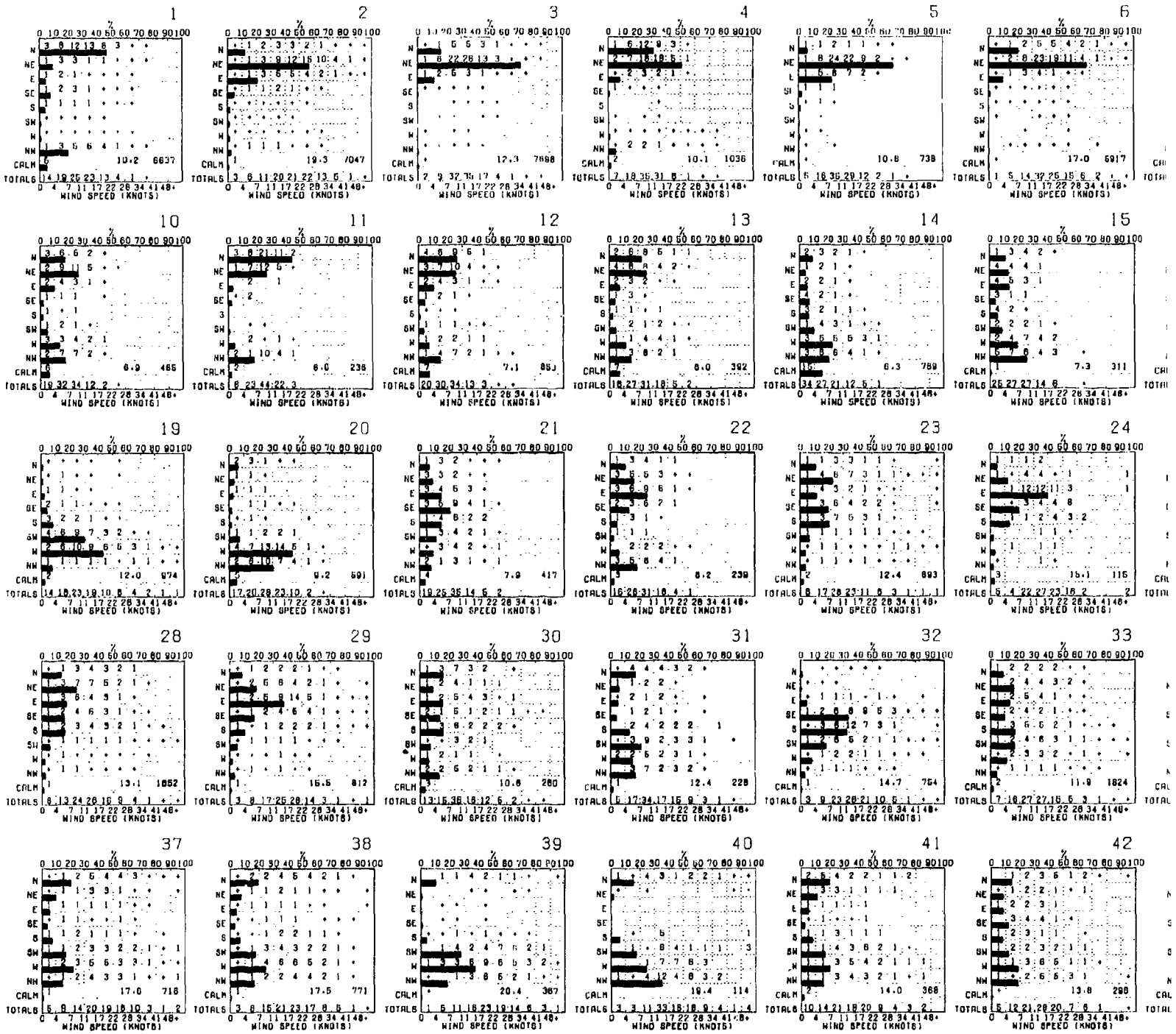

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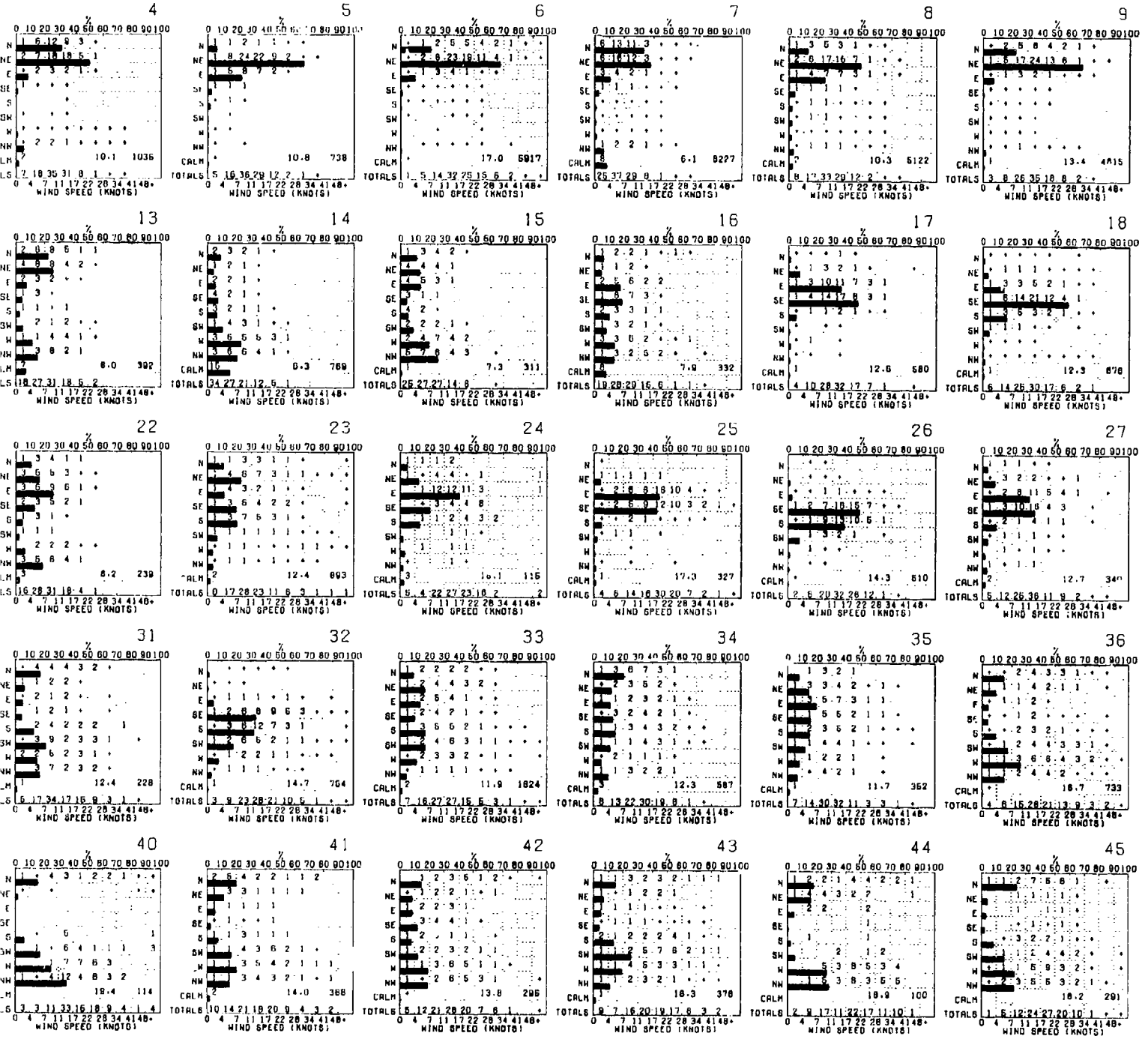
JANUARY



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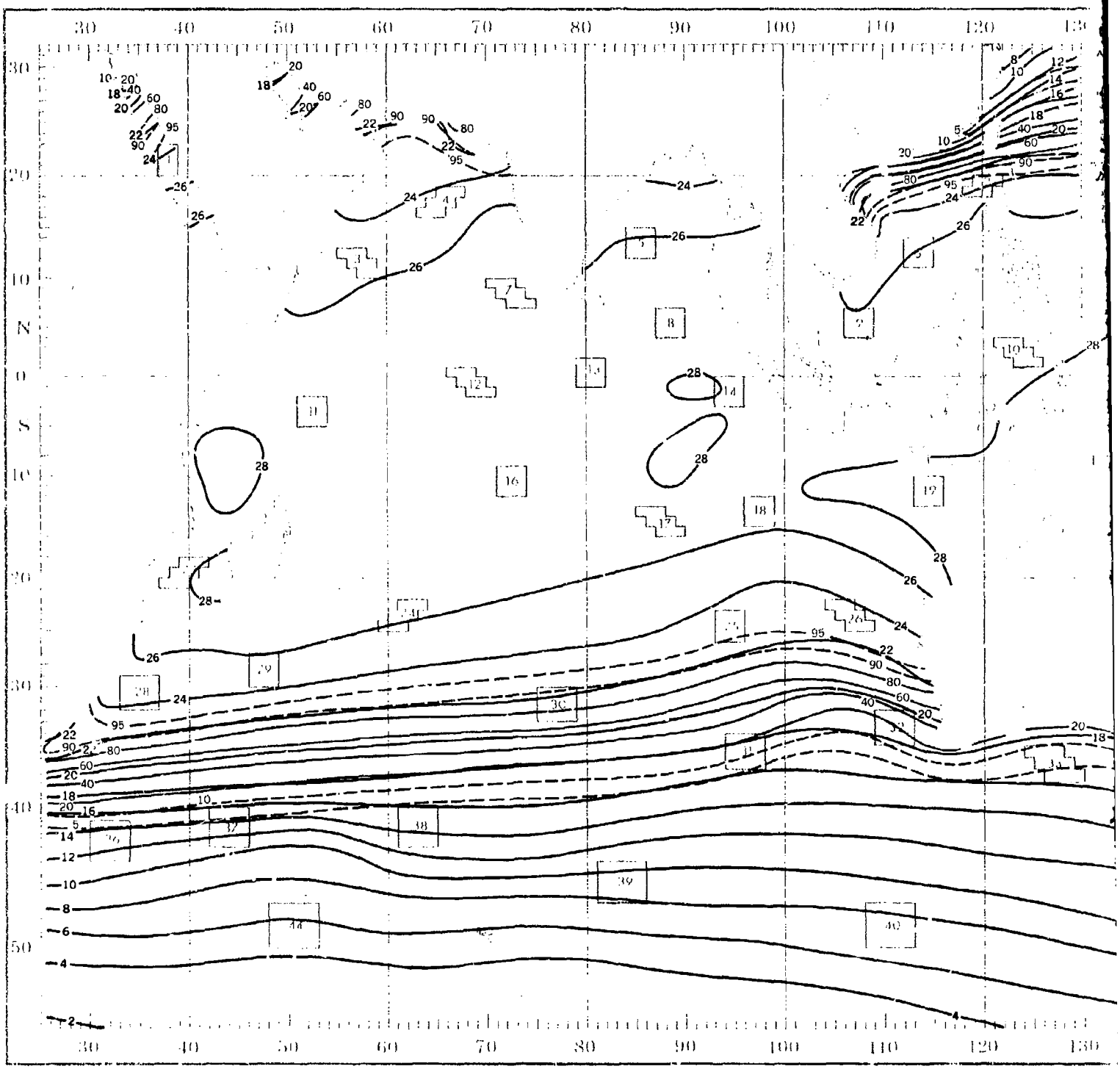

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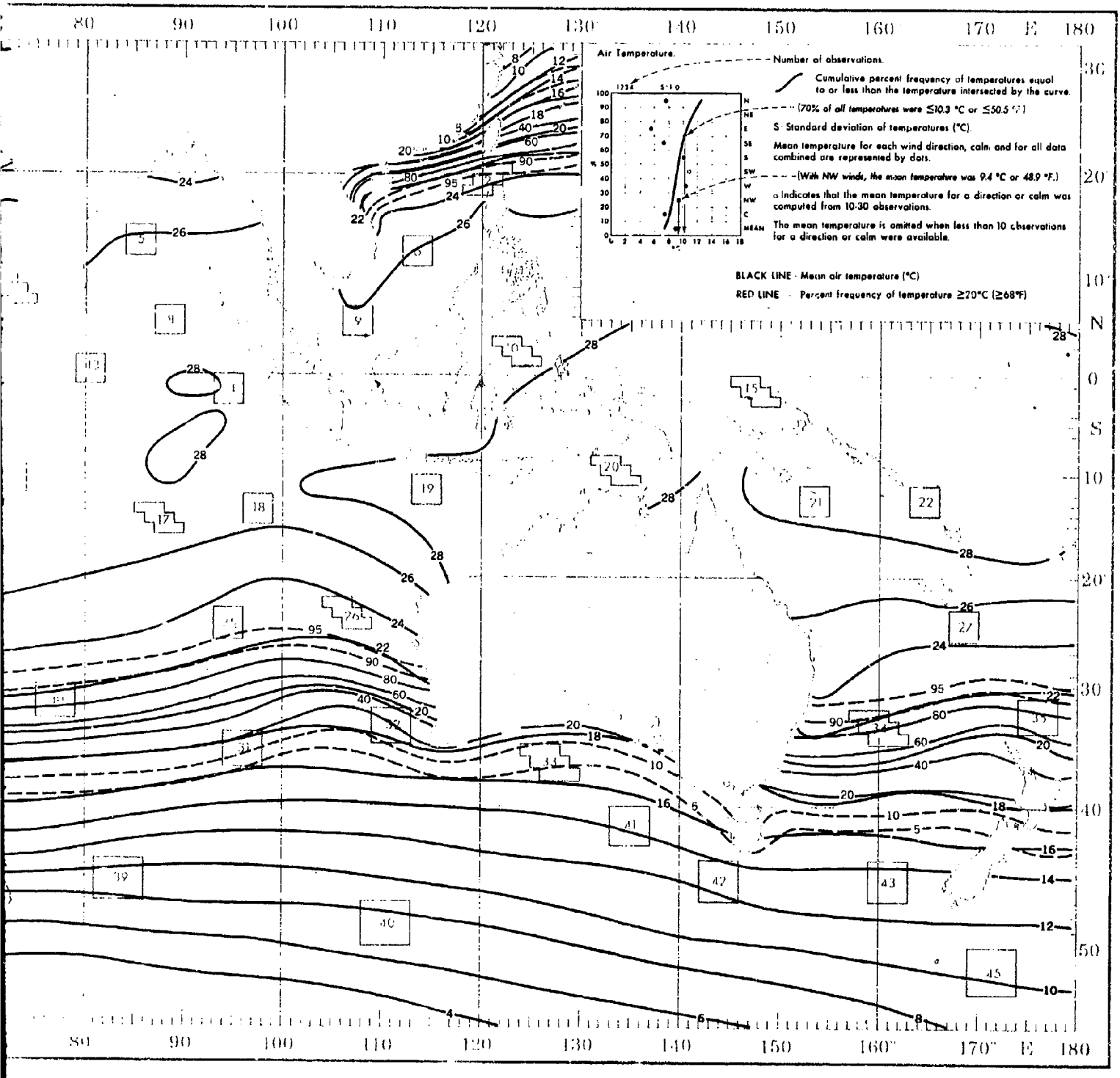

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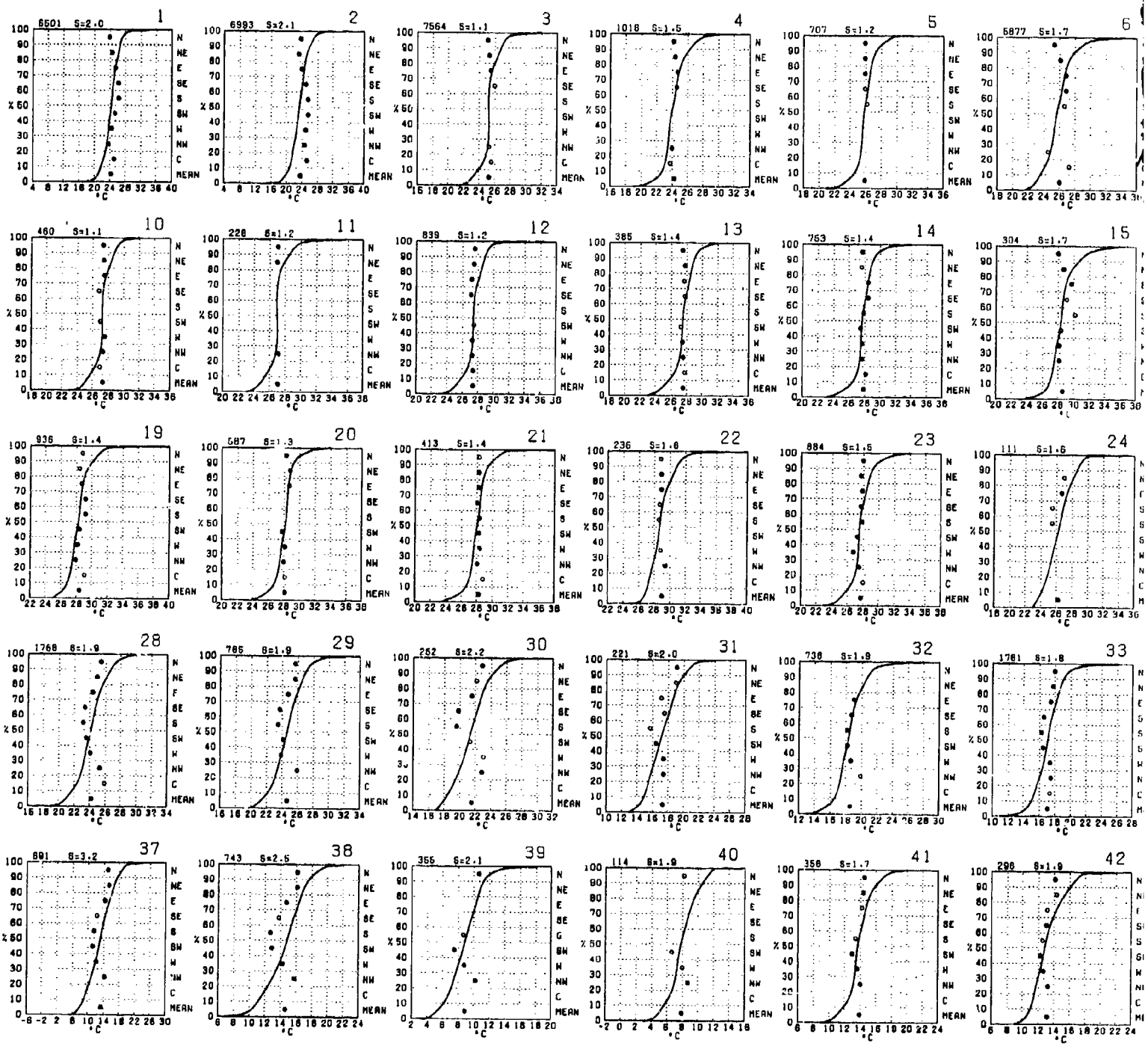

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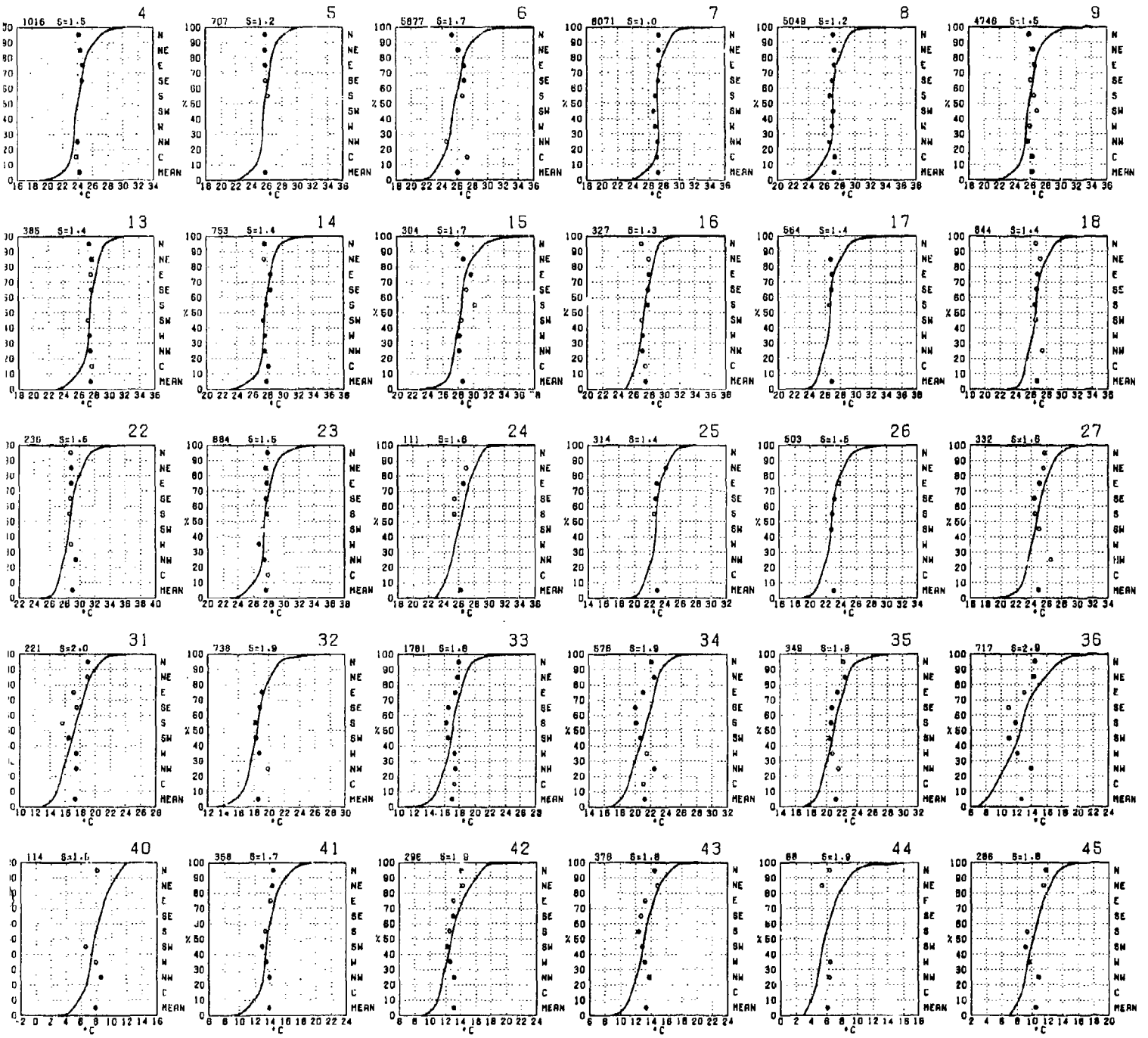

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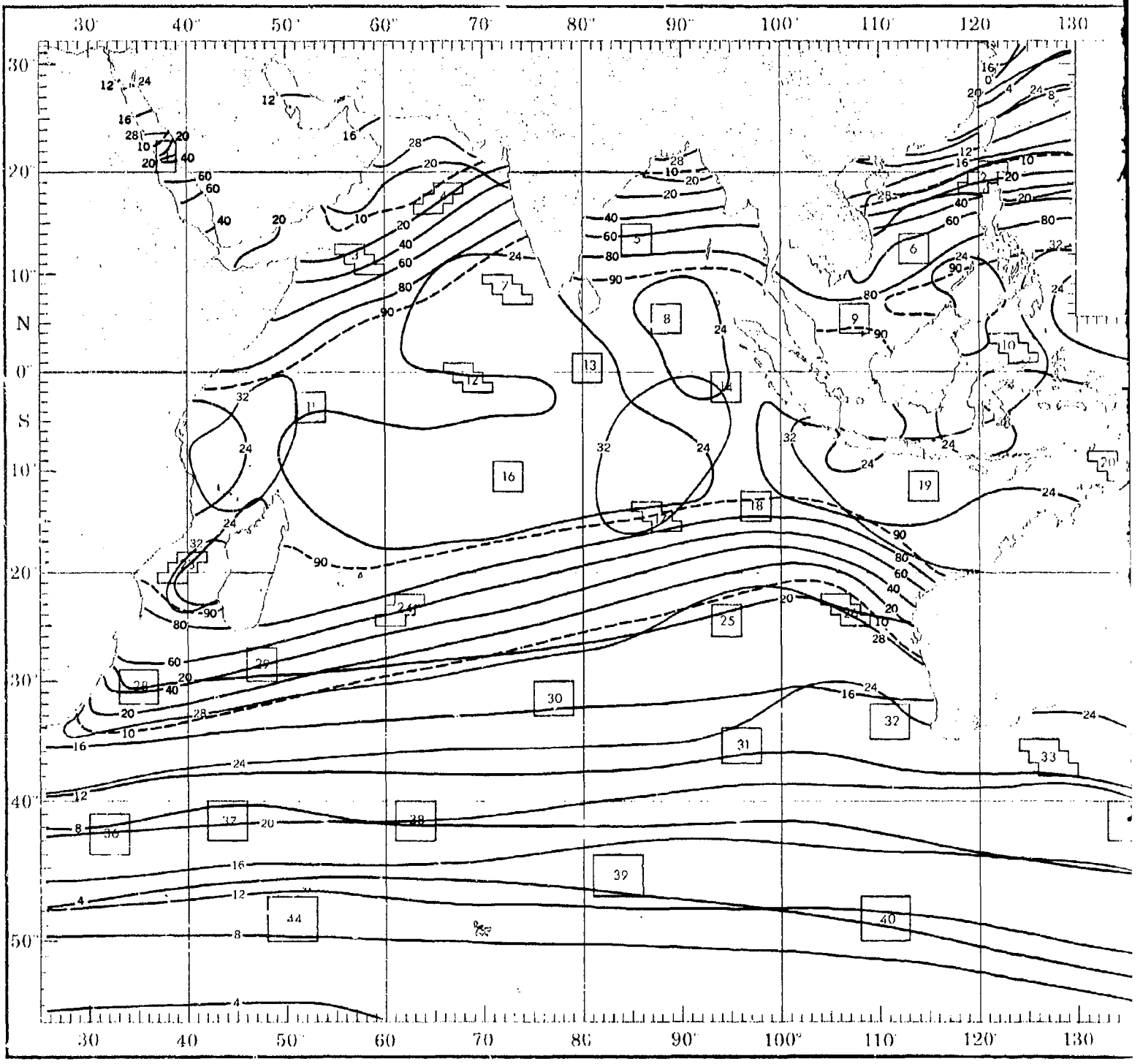
TEMPERATURE EX



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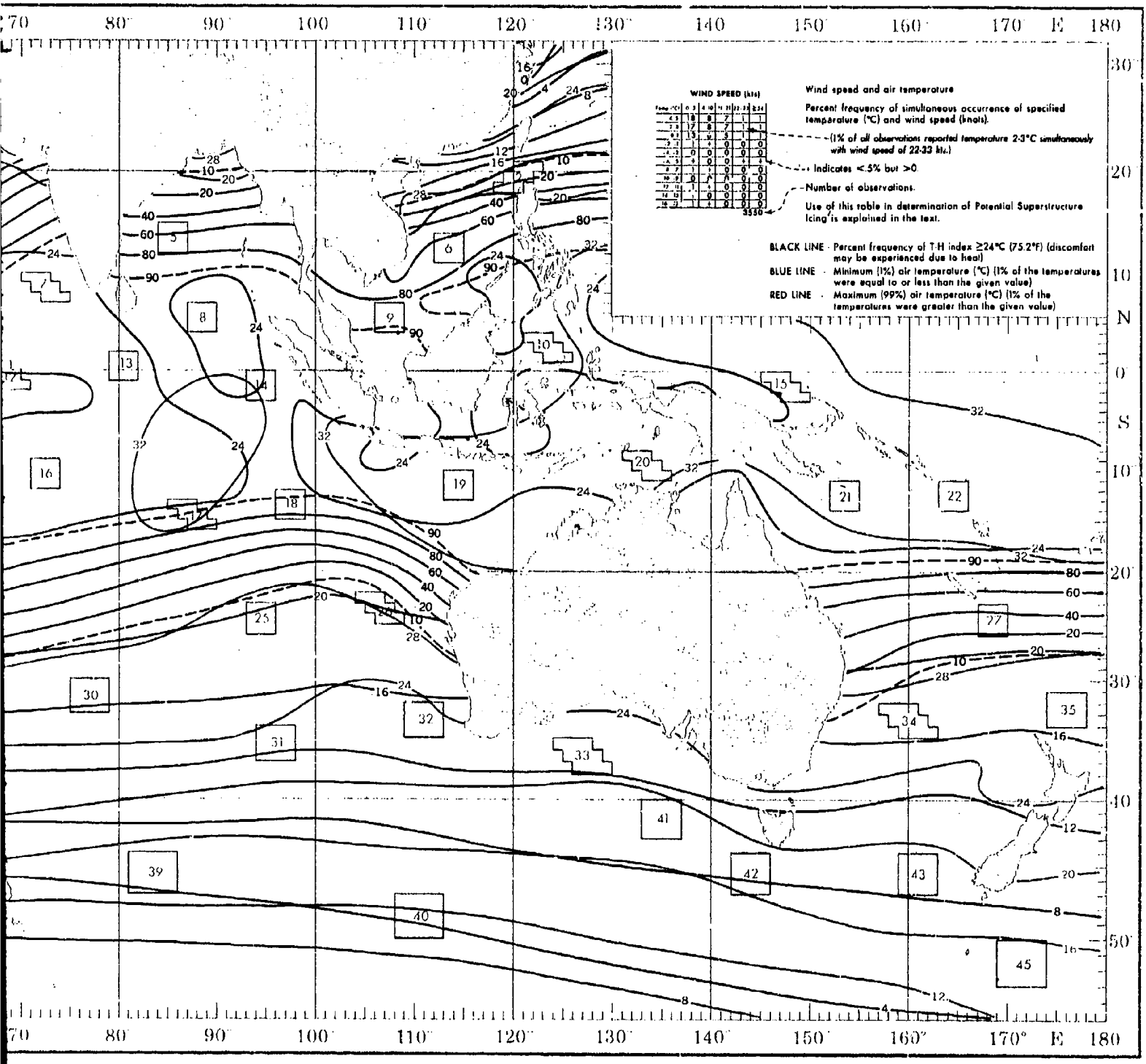

WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	0	+	0	0
32.33	+	+	+	0	0
30.31	+	1	+	0	0
28.28	1	2	1	+	0
28.27	5	14	6	+	0
24.26	6	18	13	1	+
22.23	1	7	13	2	+
20.21	+	2	3	1	+
18.19	+	+	+	+	+
16.17	0	+	+	+	0
14.15	0	0	0	+	0

6526

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	+	+	+	0
28.29	+	1	1	+	0
26.27	1	4	7	3	+
24.25	1	8	16	10	1
22.23	+	2	12	14	2
20.21	0	+	4	6	2
18.19	0	+	1	1	+
16.17	0	0	+	+	+
14.15	0	0	0	0	0
12.13	0	0	0	0	0

6994

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	-	+	+	+	0
28.29	+	1	2	+	+
26.27	1	14	20	1	+
24.25	1	24	30	3	+
22.23	+	1	1	+	+
20.21	0	+	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

7564

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	+	2	1	0	0
26.27	1	8	7	+	0
24.25	3	28	19	+	0
22.23	2	14	11	+	+
20.21	+	+	1	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1018

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	0	0	0
28.28	1	4	4	0	0
26.27	2	28	27	2	0
24.25	1	18	10	1	+
22.23	+	1	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

707

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	0	+	1	0	0
30.31	+	1	2	+	0
28.29	+	3	9	2	+
26.27	+	10	29	8	1
24.25	+	4	16	9	1
22.23	0	+	2	2	+
20.21	0	+	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5877

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	2	1	0	0
28.29	7	24	6	+	0
26.27	11	37	7	0	0
24.25	1	3	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

460

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	2	1	0	0
28.29	2	22	7	0	0
26.27	4	37	17	0	0
24.25	+	5	+	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

228

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	1	3	1	0	0
28.29	11	27	7	+	0
26.27	8	30	6	+	0
24.25	1	3	2	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

846

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	2	5	2	0	0
28.29	8	28	12	1	0
26.27	6	22	6	1	0
24.25	+	3	3	0	0
22.23	0	0	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

388

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	5	6	1	+	0
28.29	19	24	8	+	0
26.27	8	17	6	1	0
24.25	1	2	2	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

783

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	+	0	0	0
32.33	2	3	0	0	0
30.31	5	7	1	0	0
28.29	13	34	11	0	0
26.27	4	10	7	+	0
24.25	0	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

304

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	0	0	0
30.31	4	8	4	2	1
28.29	7	24	17	7	2
26.27	2	8	8	3	1
24.25	+	+	1	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

936

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	0	0	0	0
32.33	0	1	+	0	0
30.31	3	4	2	0	0
28.29	9	34	23	1	0
26.27	4	8	7	1	0
24.25	1	1	1	+	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

590

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	0	0	0
30.31	2	6	3	+	0
28.29	12	33	12	1	0
26.27	3	16	4	+	0
24.25	+	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

417

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	0	0	0
32.33	1	3	1	0	0
30.31	5	14	6	+	0
28.29	6	31	10	1	0
26.27	2	11	3	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

237

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	1	1	0	0
30.31	1	4	2	0	0
28.29	5	23	14	3	0
26.27	2	16	16	6	1
24.25	+	1	1	+	2
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

699

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	4	0	0	0
28.29	2	5	10	3	0
26.27	1	12	25	4	1
24.25	0	6	14	11	1
22.23	0	1	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

111

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	+	+	+	0	0
28.29	1	1	1	+	0
26.27	1	9	8	2	+
24.25	3	17	19	4	+
22.23	1	8	11	5	1
20.21	+	1	3	1	+
18.19	0	+	+	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1786

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	+	+	0
28.28	+	2	4	1	0
26.27	1	9	12	4	1
24.25	2	10	25	4	1
22.23	1	3	10	6	1
20.21	0	1	2	1	0
18.19	0	0	0	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

765

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	2	1	0	0
26.26	3	8	5	+	0
24.25	5	19	11	0	+
22.23	4	13	9	3	+
20.21	+	8	9	2	0
18.19	0	1	+	2	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

252

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	1	+	0	0
26.28	2	8	4	1	0
24.26	2	18	8	1	0
22.23	1	19	15	6	0
20.21	0	6	4	3	1
18.19	0	0	0	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

226

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	+	0	0
26.26	+	1	+	0	0
24.25	›	2	2	+	+
22.23	1	5	10	3	+
20.21	1	16	22	6	+
18.19	1	8	13	5	1
16.17	+	1	1	1	+
14.15	0	0	+	+	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

739

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	0	0
22.23	+	+	+	+	0
20.21	1	3	2	+	0
18.19	3	14	15	2	0
16.17	3	19	18	3	+
14.15	1	8	6	1	+
12.13	+	+	+	+	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

1788

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	+	0	0	0
20.21	+	1	+	1	+
18.19	+	1	4	3	+
16.17	+	4	8	4	1
14.15	1	5	7	7	1
12.13	1	4	12	6	1
10.11	1	5	6	2	2
8.9	1	2	5	3	1
6.7	0	+	2	1	0
4.5	0	0	1	0	0
2.3	0	0	0	0	0

691

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	0	0	0
20.21	0	1	1	+	0
18.19	1	3	4	2	+
16.17	1	6	14	9	1
14.15	1	6	12	7	2
12.13	+	4	8	5	1
10.11	+	2	3	2	1
8.9	+	+	+	1	+
6.7	0	+	+	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

743

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	+	0	0
14.15	0	0	+	1	0
12.13	0	1	5	4	+
10.11	+	5	12	8	3
8.9	+	4	13	11	4
6.7	1	5	8	7	2
4.5	0	1	2	2	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-1.-2	0	0	0	0	0
-3.-4	0	0	0	0	0

355

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	1	0	0
10.11	0	3	12	8	3
8.9	0	4	13	11	2
6.7	3	6	17	8	3
4.5	0	0	6	2	2
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-1.-2	0	0	0	0	0
-3.-4	0	0	0	0	0
-5.-6	0	0	0	0	0
-7.-8	0	0	0	0	0

114

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	1	1	0	0
16.17	1	6	6	2	1
14.15	4	14	16	6	3
12.13	4	9	15	4	1
10.11	+	3	1	1	1
8.9	0	+	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

369

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	0	0	0
18.19	0	0	+	+	0
16.17	2	5	4	2	0
14.15	1	9	12	3	0
12.13	1	16	23	6	1
10.11	1	4	8	2	0
8.9	0	0	+	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

296

Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

PERATURE

JANUARY

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	+	2	1	0	0
26.27	1	8	7	+	0
24.25	3	28	19	+	0
22.23	2	14	11	+	+
20.21	+	+	1	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1018

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	0	0	0
28.29	1	4	4	0	0
26.27	2	28	27	2	0
24.25	1	18	10	1	+
22.23	+	1	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

707

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	0	+	1	0	0
30.31	+	1	2	+	0
28.29	+	3	9	2	+
26.27	+	10	29	8	1
24.25	+	4	16	9	1
22.23	0	+	2	2	+
20.21	0	+	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5877

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	1	2	+	0	0
28.29	7	25	4	+	0
26.27	16	37	5	+	0
24.25	1	1	+	+	0
22.23	+	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

8084

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	+	+	+	0	0
30.31	+	2	2	+	+
28.29	3	18	18	1	0
26.27	4	27	19	1	0
24.25	+	2	2	+	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5059

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	+	0
30.31	+	1	1	+	0
28.29	+	5	7	1	0
26.27	2	19	29	5	+
24.25	+	8	14	4	+
22.23	0	1	1	+	+
20.21	0	+	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4748

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	2	5	2	0	0
28.29	8	28	12	1	0
26.27	6	22	6	1	0
24.25	+	3	3	0	0
22.23	0	0	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

388

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	5	5	1	+	0
28.29	19	24	8	+	0
26.27	8	17	6	1	0
24.25	1	2	2	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

753

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	+	0	0	0
32.33	2	3	0	0	0
30.31	5	7	1	0	0
28.29	13	34	11	0	0
26.27	4	10	7	+	0
24.25	0	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

304

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	1	0	0
30.31	1	5	1	0	0
28.29	9	26	11	1	0
26.27	9	22	8	1	+
24.25	1	3	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

333

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	1	0	0
30.31	+	2	1	0	0
28.29	+	7	14	2	0
26.27	3	24	31	5	0
24.25	+	4	4	1	+
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

566

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	2	2	+	0
28.29	1	9	12	2	+
26.27	2	22	29	5	1
24.25	1	5	5	1	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

845

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	0	0	0
32.33	1	3	1	0	0
30.31	5	14	6	+	0
28.29	8	31	10	1	0
26.27	2	11	3	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

237

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	1	1	0	0
30.31	1	4	2	0	0
28.29	6	23	14	3	0
26.27	2	16	16	6	1
24.25	+	1	1	+	2
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

899

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	4	0	0	0
28.29	2	5	10	3	0
26.27	1	12	26	4	1
24.25	0	6	14	11	1
22.23	0	1	1	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

111

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	0	+	0	0
26.27	1	2	1	1	0
24.25	1	8	11	5	1
22.23	1	8	26	15	3
20.21	+	3	4	6	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

314

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	3	1	1	0	0
26.27	+	2	3	+	+
24.25	+	8	18	1	0
22.23	1	16	32	8	0
20.21	0	2	5	3	0
18.18	0	1	+	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

503

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	0	0	0	0
28.29	+	5	2	+	0
26.27	2	10	16	2	0
24.25	2	16	23	6	1
22.23	1	4	6	2	0
20.21	+	1	+	1	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

334

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	1	+	0	0
26.27	2	8	4	1	0
24.25	2	18	8	1	0
22.23	1	19	15	6	0
20.21	0	6	4	3	1
18.18	0	0	0	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

226

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	+	0	0
24.26	+	1	+	0	0
22.23	+	2	2	+	+
20.21	1	8	10	3	+
18.18	1	18	22	8	+
16.17	1	8	13	5	1
14.15	+	1	1	1	+
12.13	0	0	+	+	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

739

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	0	0
22.23	+	+	+	0	0
20.21	1	3	2	+	0
18.18	3	14	15	2	0
16.17	3	19	18	3	+
14.15	1	8	5	1	+
12.13	+	+	+	+	+
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

1788

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	1	+	1	0	0
24.25	1	3	6	2	0
22.23	3	14	19	2	0
20.21	1	10	15	2	0
18.18	2	7	6	2	+
16.17	0	1	+	1	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

582

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	0	+	0	0	0
26.27	1	1	1	0	0
24.25	1	4	9	0	0
22.23	1	16	15	2	+
20.21	3	17	18	3	1
18.18	2	6	6	2	0
16.17	0	+	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

380

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	1	+	+
18.18	+	1	3	1	+
16.17	+	2	5	3	+
14.15	1	6	9	4	1
12.13	1	5	15	6	+
10.11	1	4	11	4	1
8.8	+	2	5	2	1
6.7	0	1	1	1	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

717

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	1	0	0
10.11	0	3	12	8	3
8.8	0	4	13	11	2
6.7	3	8	17	8	3
4.5	0	0	6	2	2
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

114

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	1	1	0	0
16.17	1	6	8	2	1
14.15	4	14	15	6	3
12.13	4	9	15	4	1
10.11	+	3	1	1	1
8.8	0	+	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

359

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	0	0	0
18.18	0	0	+	+	0
16.17	2	5	4	2	0
14.15	1	9	12	3	0
12.13	1	16	23	5	1
10.11	1	4	8	2	0
8.8	0	0	+	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

296

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	0	0	0
18.18	0	1	0	+	0
16.17	1	2	5	4	+
.15	3	9	10	5	1
.13	2	9	20	10	3
10.11	1	2	4	3	2
8.8	+	1	0	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

378

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	1	0
12.13	0	0	0	0	0
10.11	0	0	3	0	0
8.8	0	5	6	6	2
6.7	0	10	16	6	1
4.5	2	16	9	13	9
2.3	0	0	0	2	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

88

45

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	1	2	1	0
12.13	+	4	16	6	+
10.11	+	5	19	9	1
8.8	+	6	12	10	1
6.7	0	1	1	3	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

286

ective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

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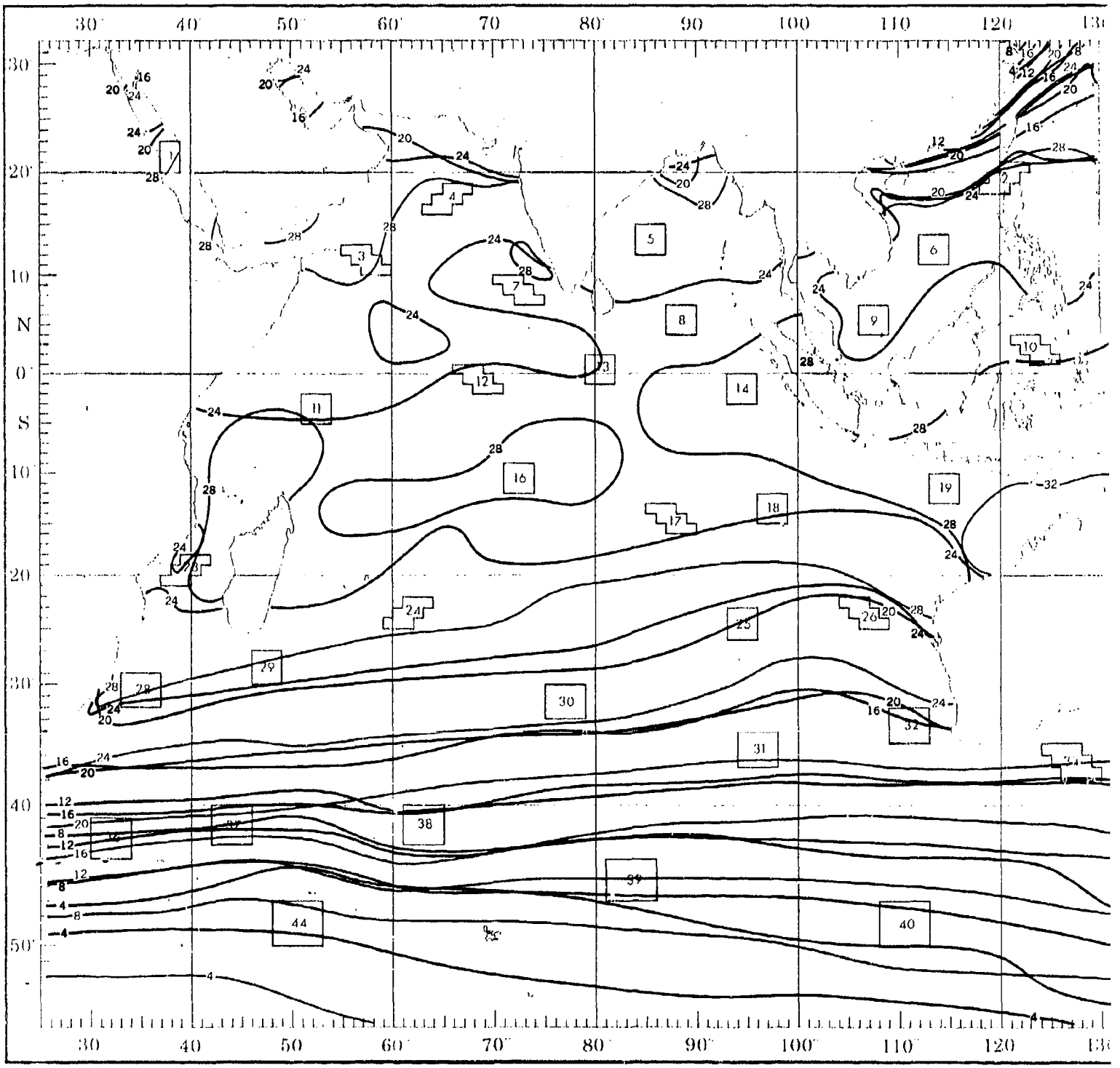

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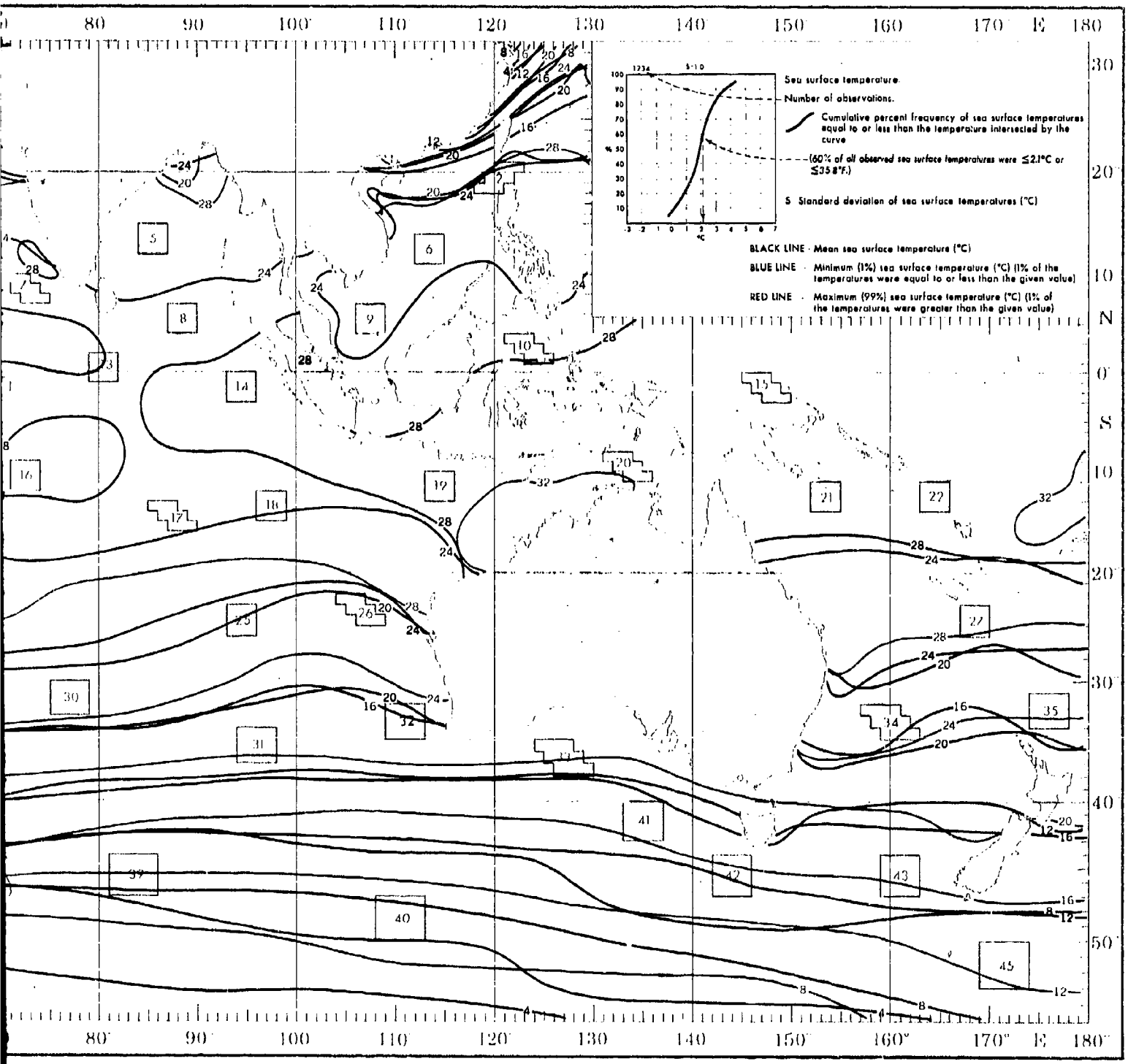

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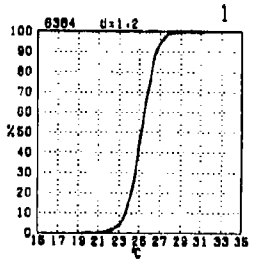
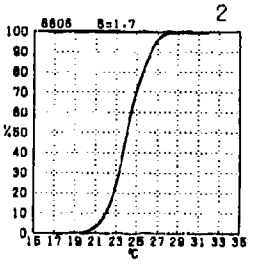
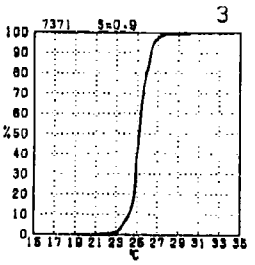
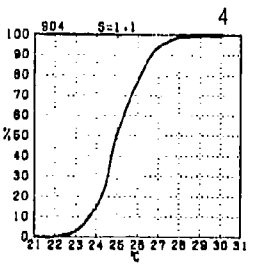
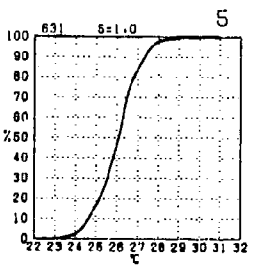
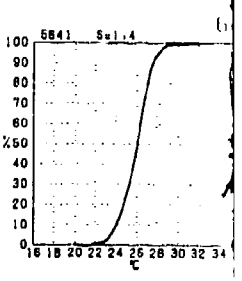


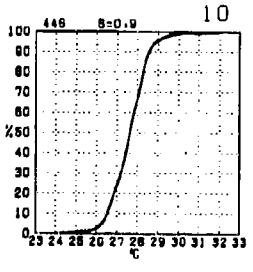


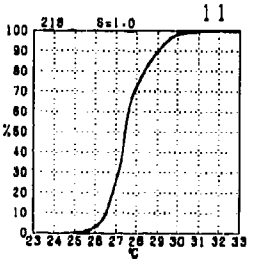


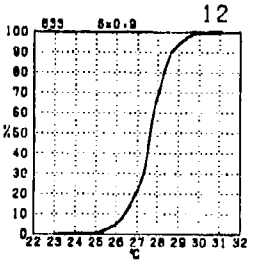


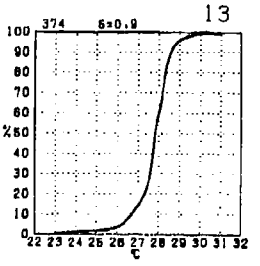


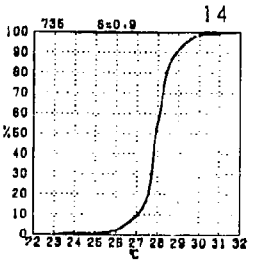


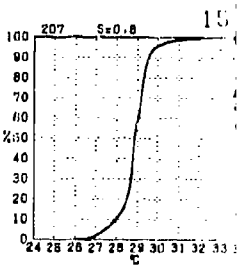


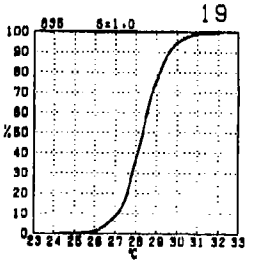


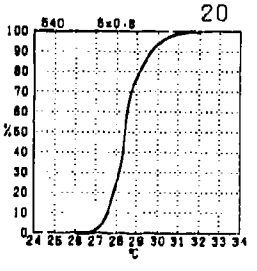


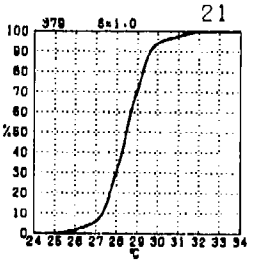


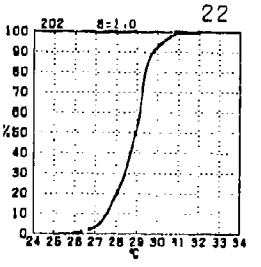


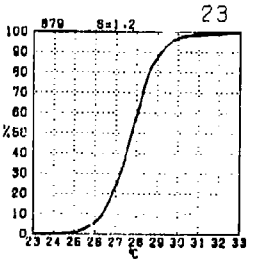


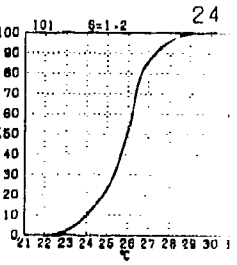


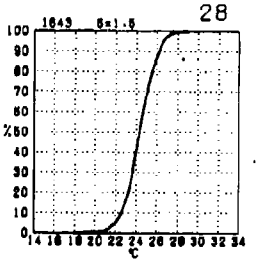


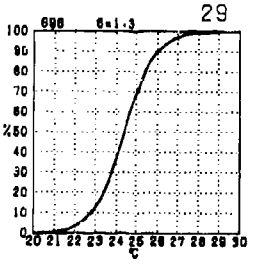


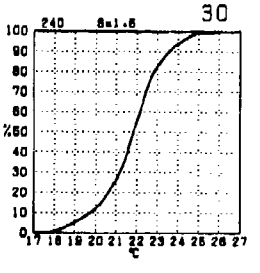


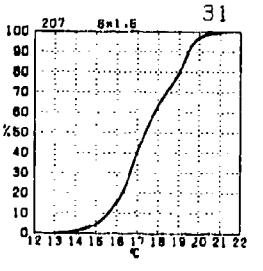


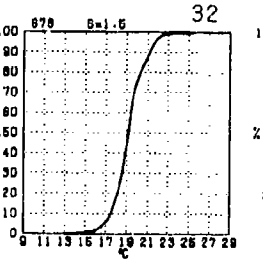


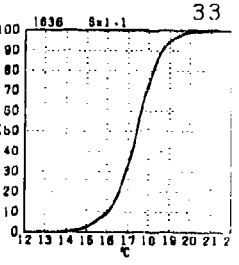


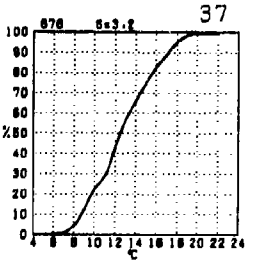


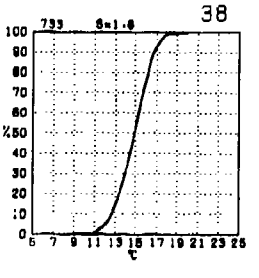


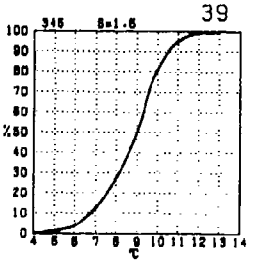


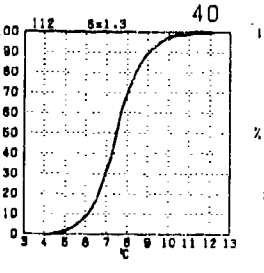


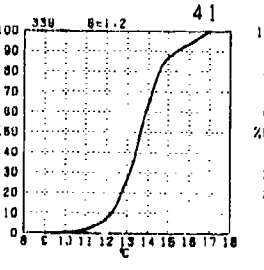


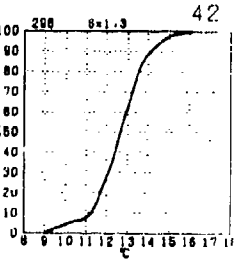






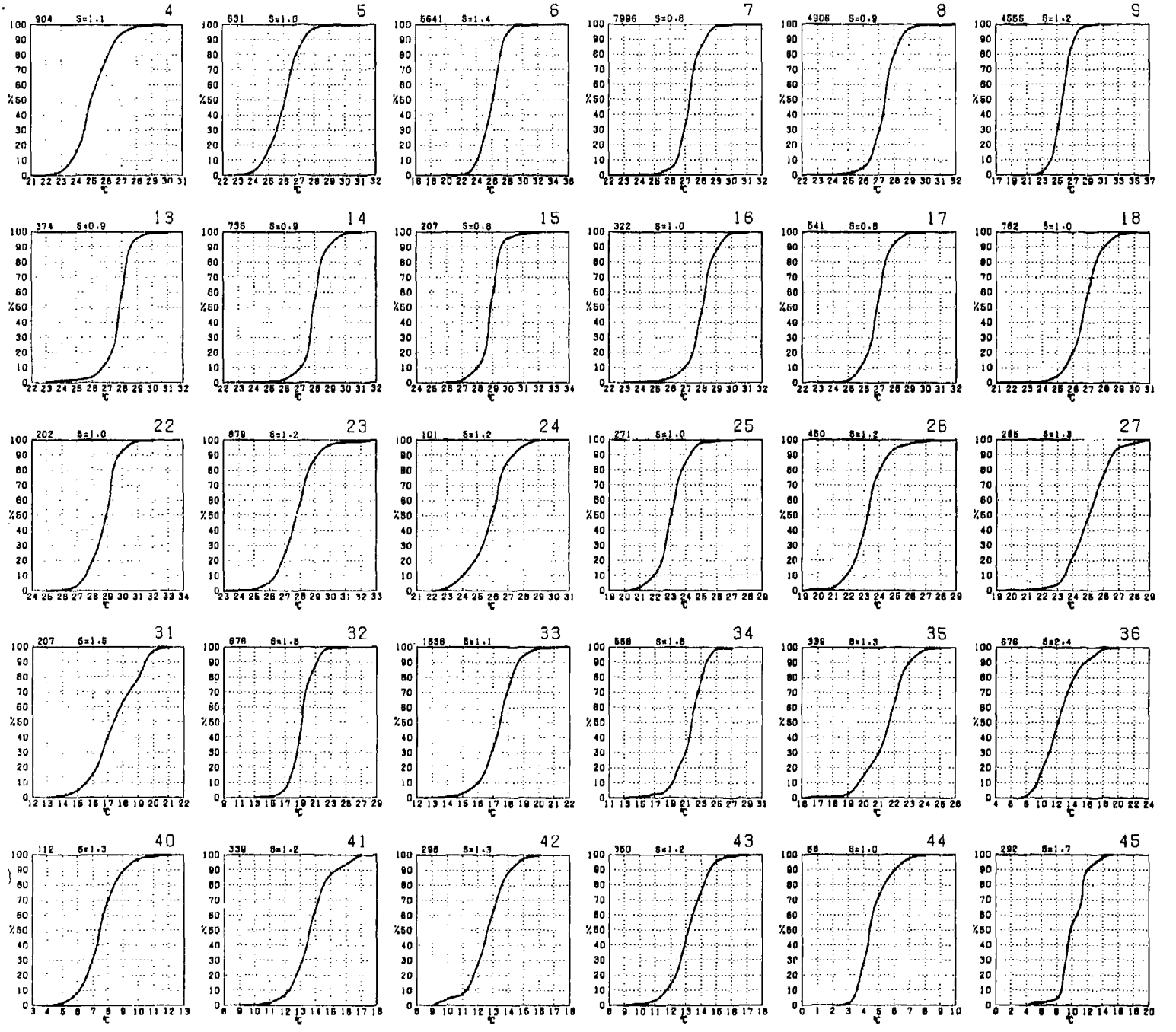






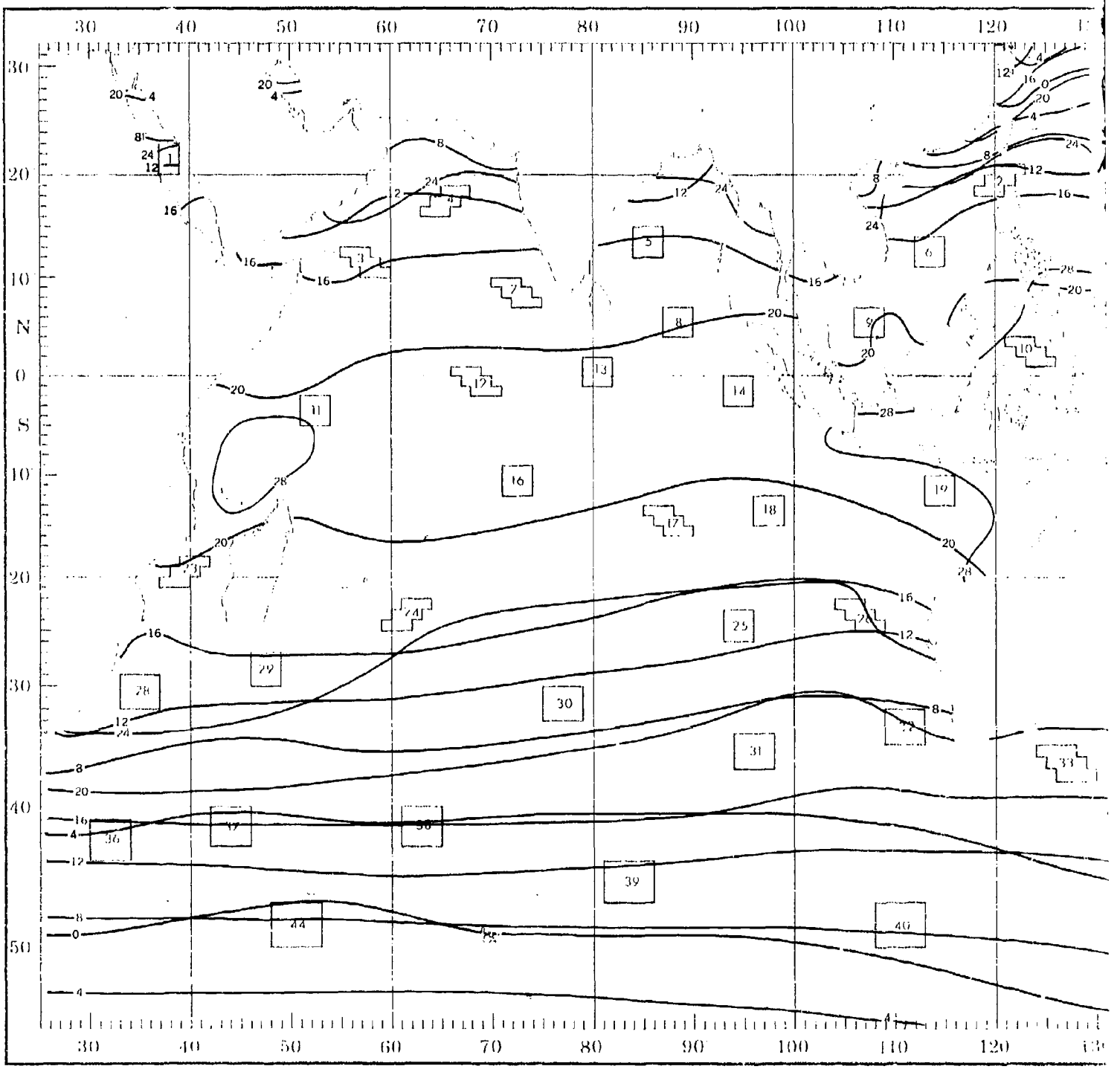
Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjust

JANUARY

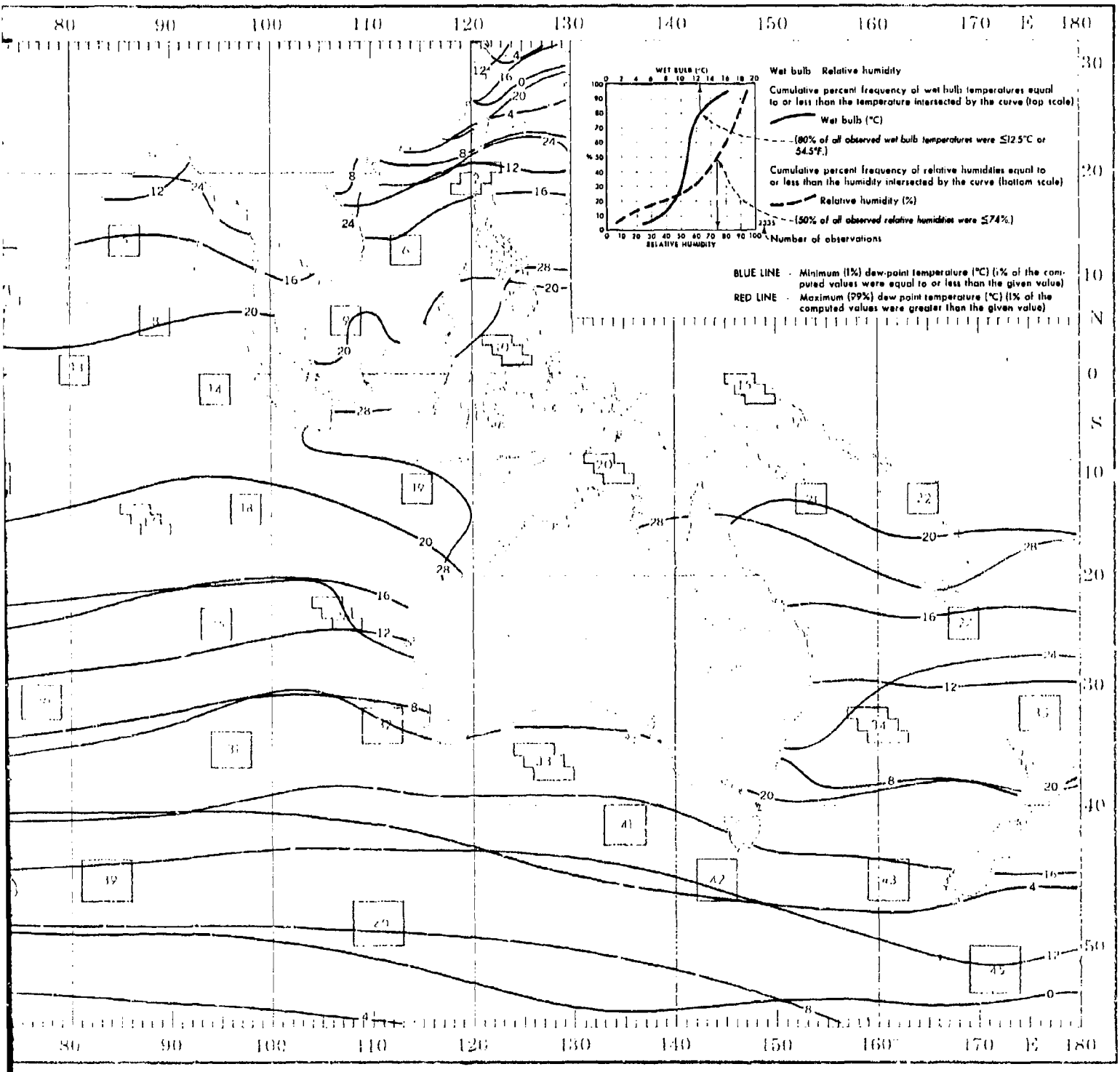


ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY



HUMIDITY


80
90
100
110
120
130
140
150
160
170
E
180
30
20
10
0
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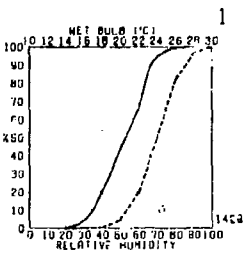
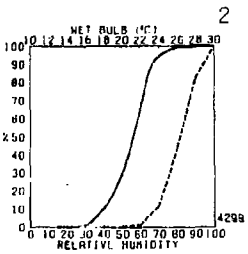
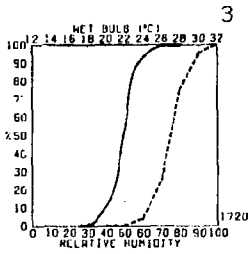
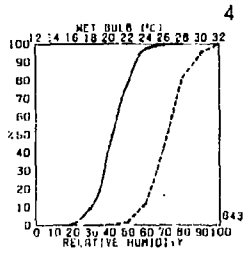
20
30
40
50
N
S
WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb Relative humidity
Cumulative percent frequency of wet bulb temperatures equal to or less than the temperature intersected by the curve (top scale)
Wet bulb (°C)
(80% of all observed wet bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale)
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
2335
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew point temperature (°C) (1% of the computed values were greater than the given value)

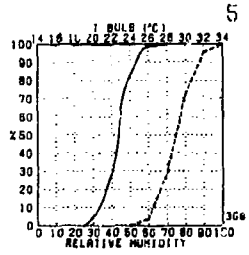
WET BULB AND RELATIVE HUMIDITY

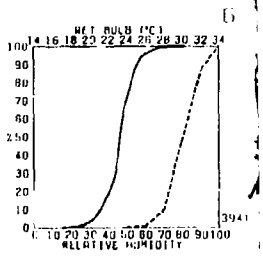


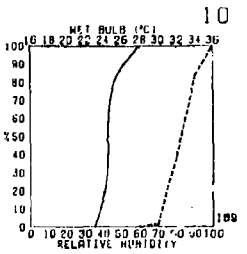


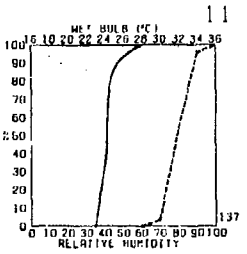


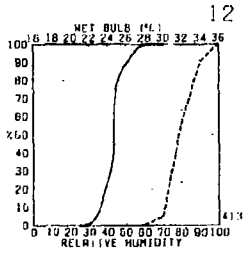


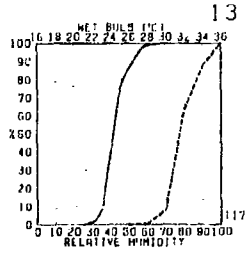


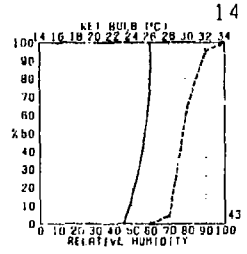


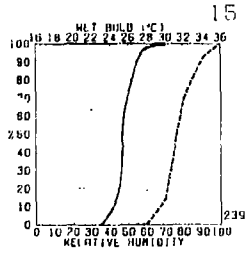


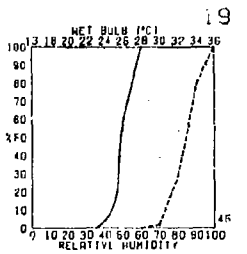


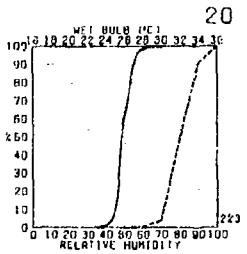


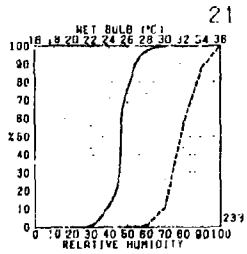


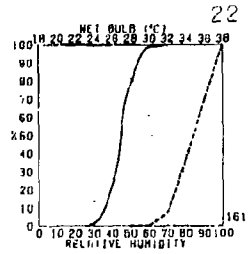


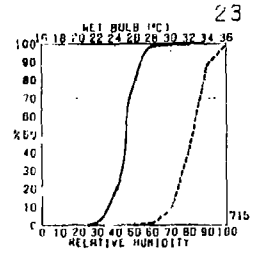












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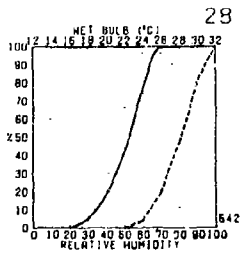
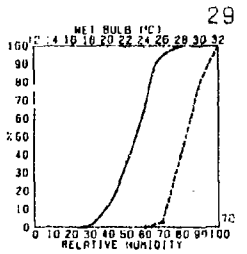
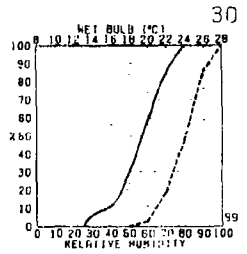
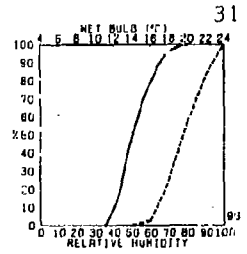
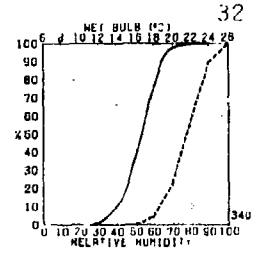
INSUFFICIENT DATA

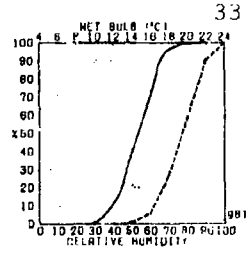


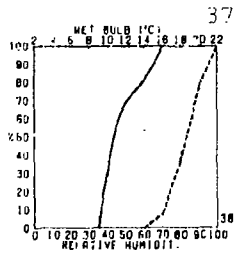


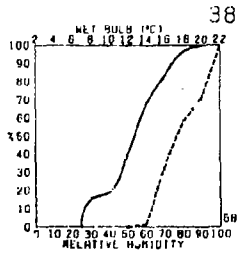


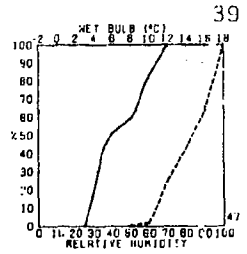












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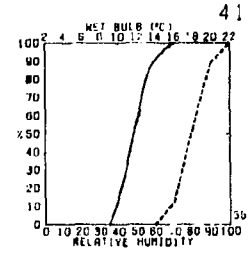
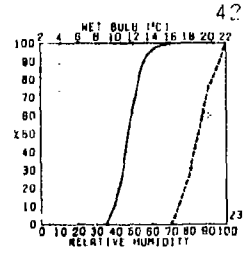
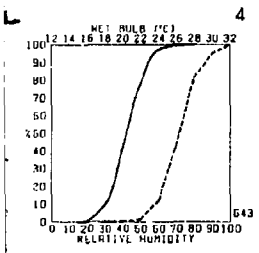


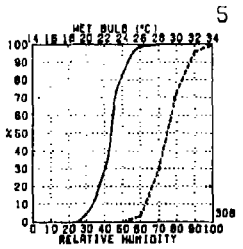


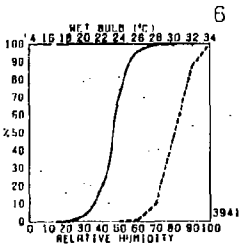
Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

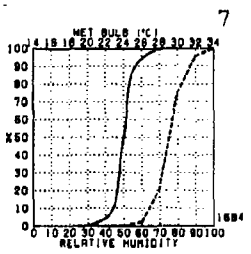
UMIDITY

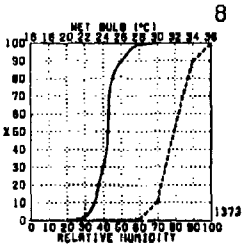
JANUARY

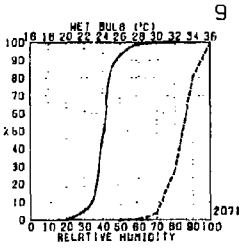


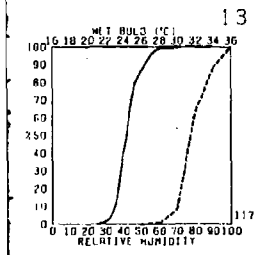


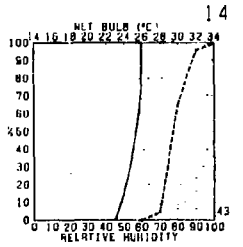


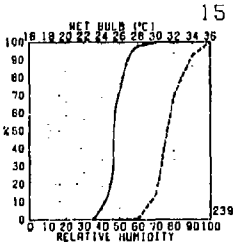


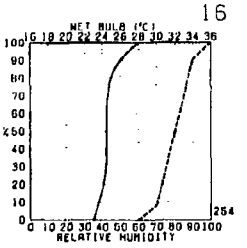


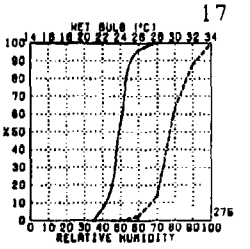


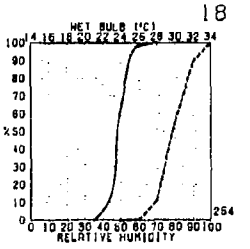


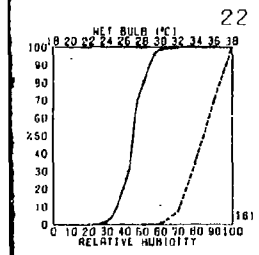


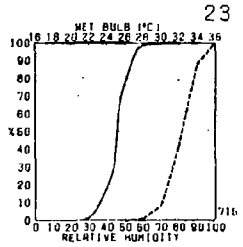






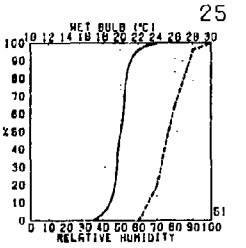


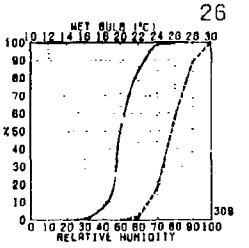


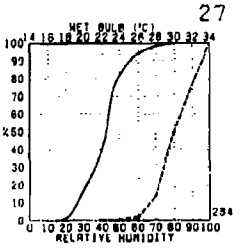


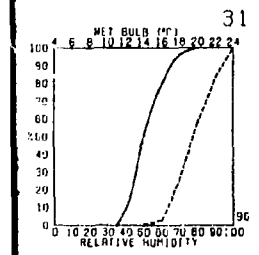
24

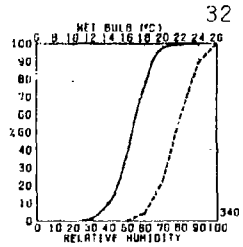
INSUFFICIENT DATA

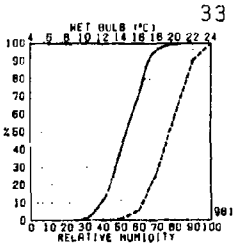


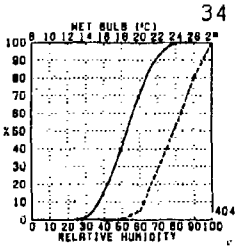


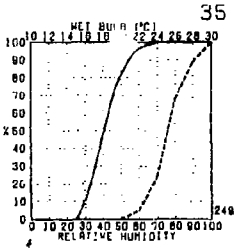


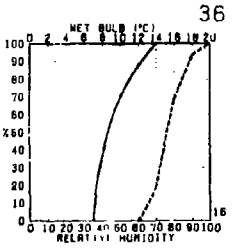












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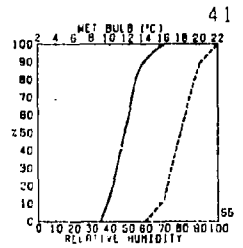
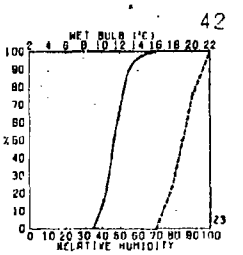
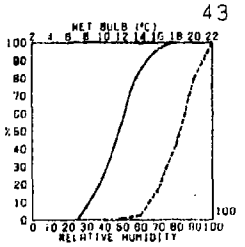
INSUFFICIENT DATA







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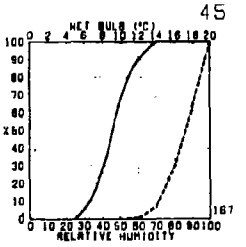
INSUFFICIENT DATA



ective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

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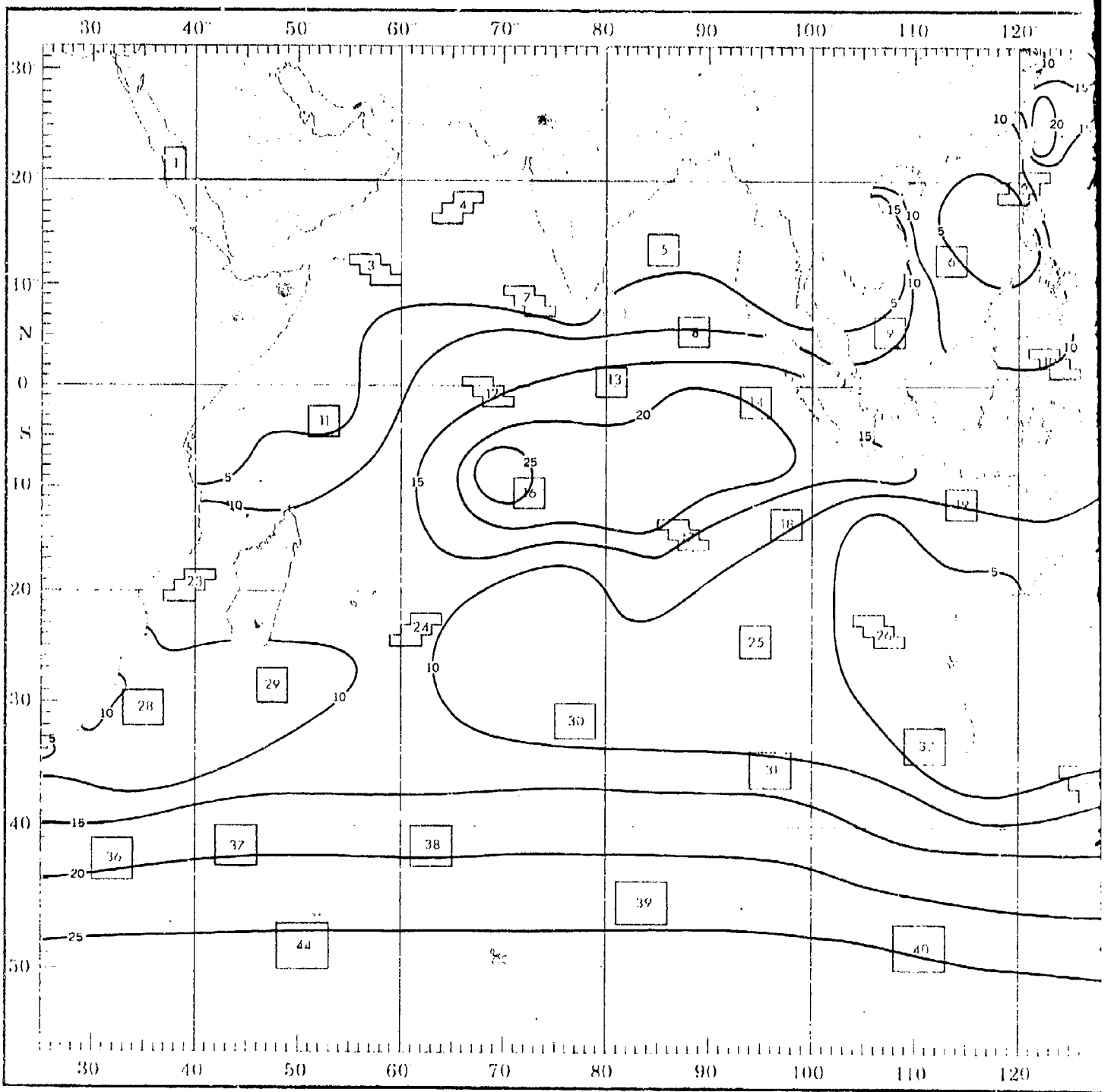
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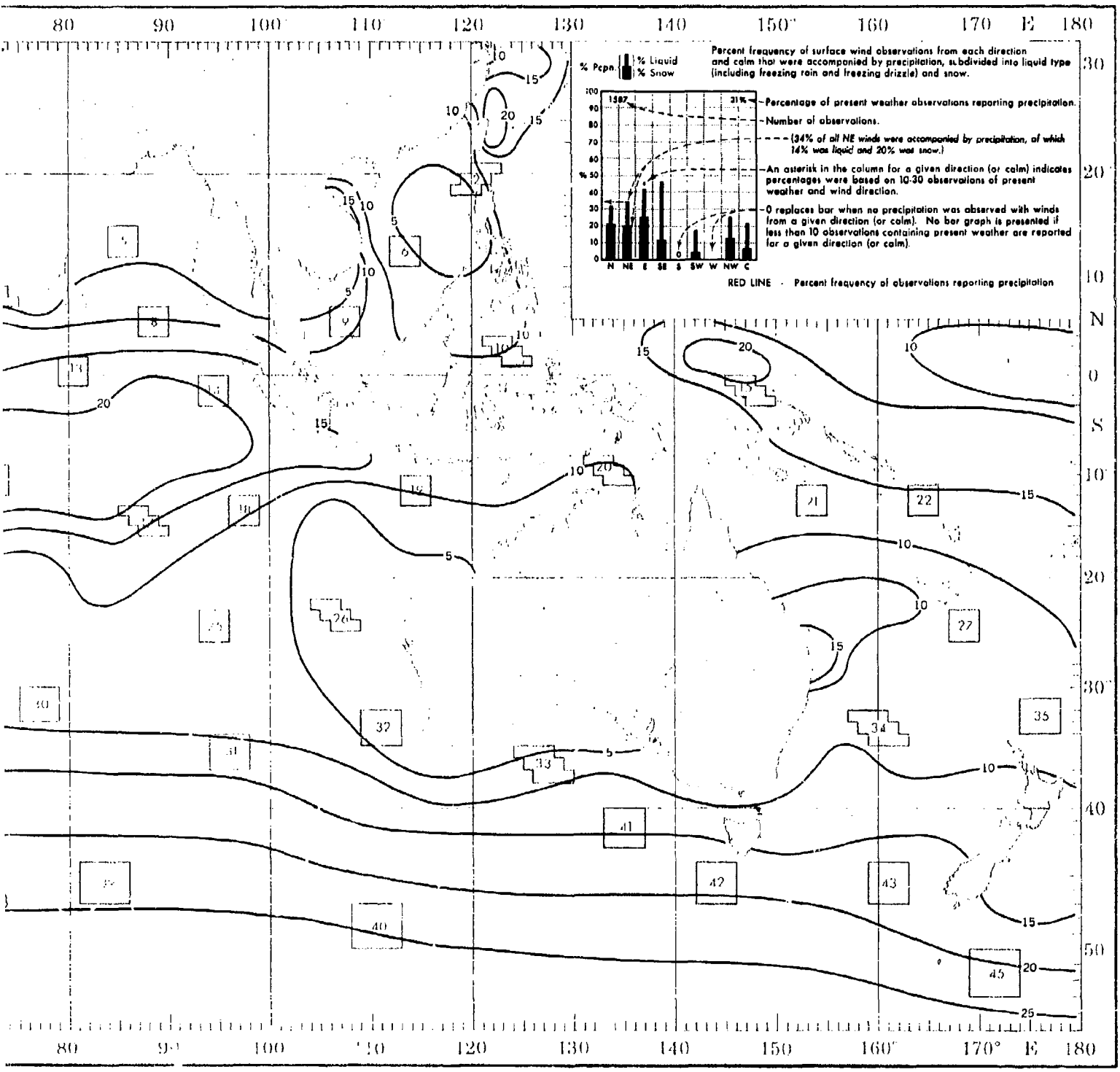
PRECIPITATION



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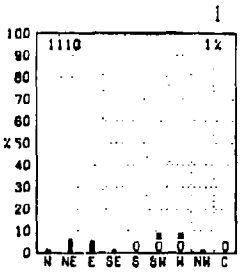

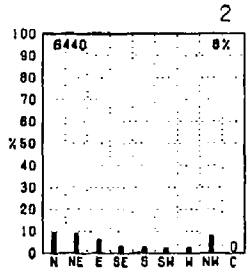

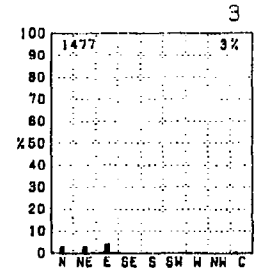

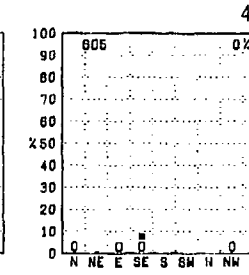

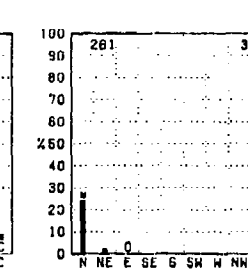

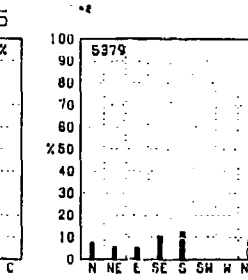

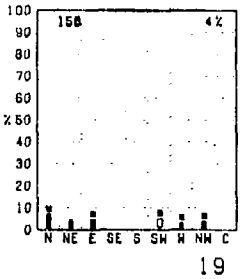

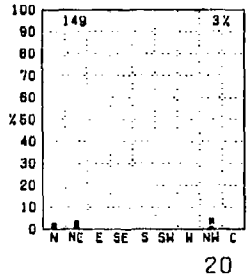

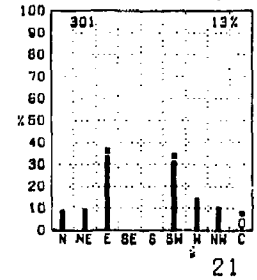

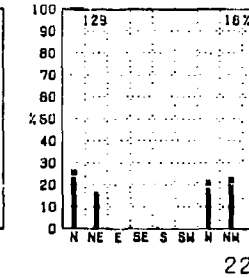

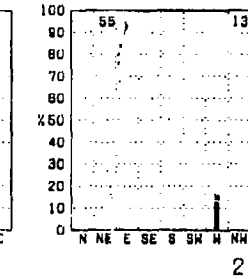

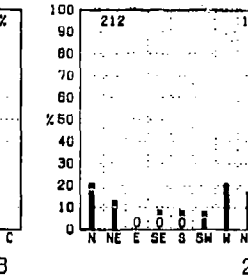

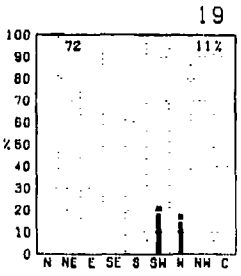

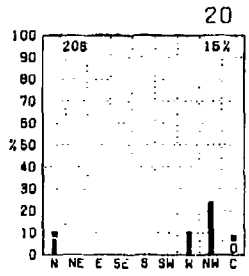

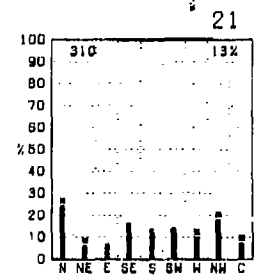

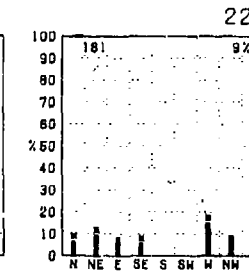

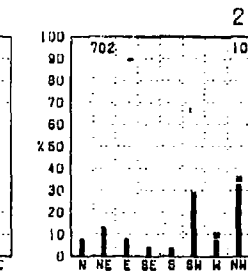

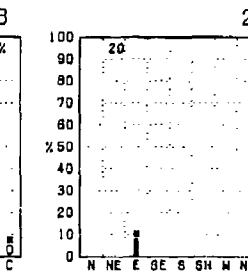

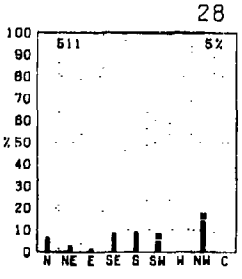

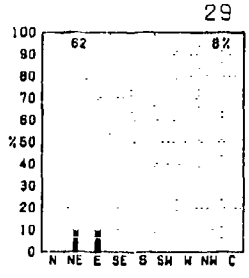

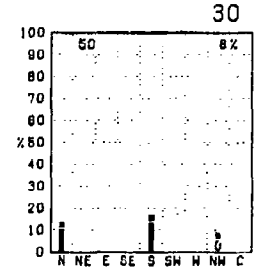

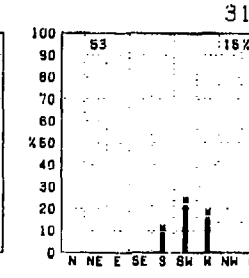

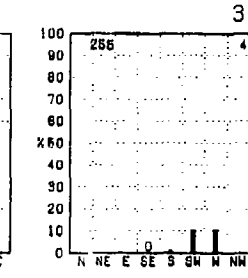

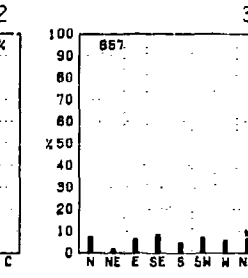

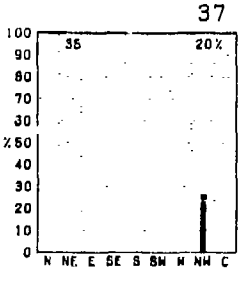

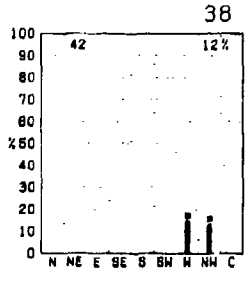

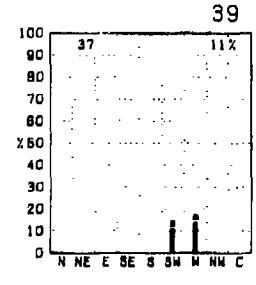

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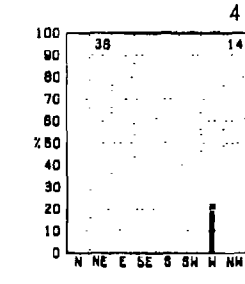

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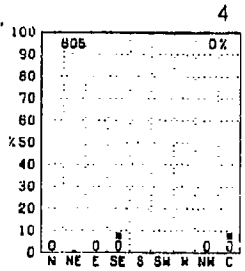
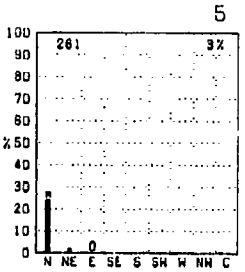
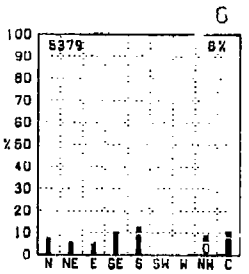
INSUFFICIENT DATA

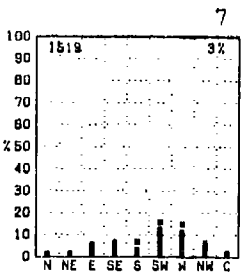
Graphs represent the objective compilation of available data for specified areas without regard
The isopleth analyses (opposite page) are based on all available data subjectively adjusted wh

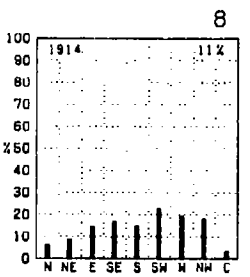
JANUARY

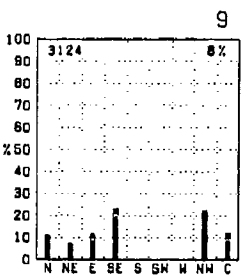


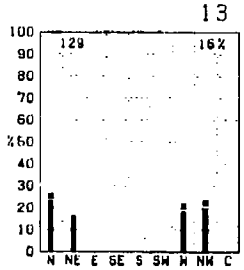


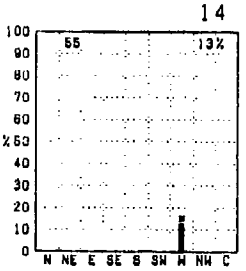


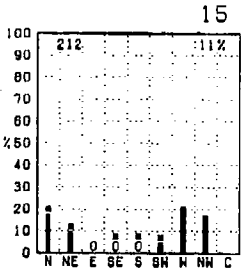


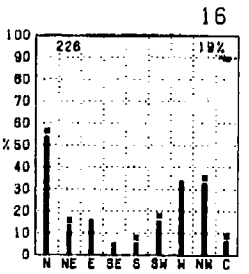


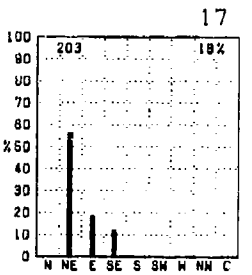


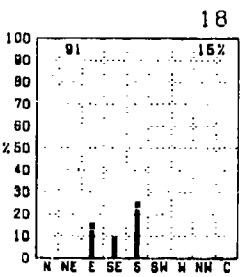


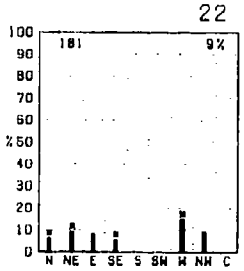


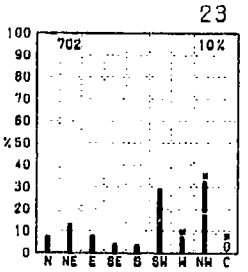


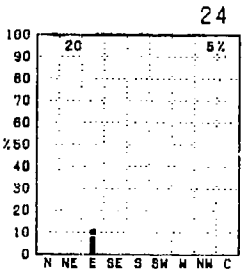


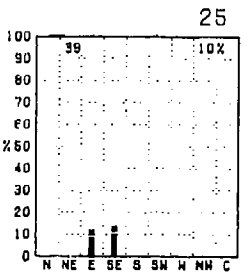


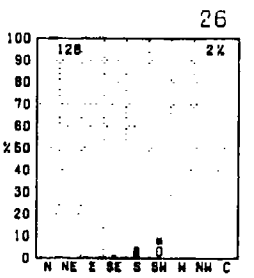


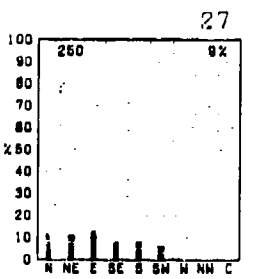


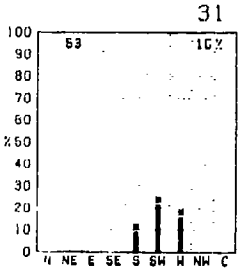


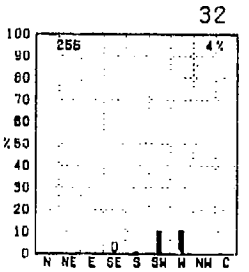


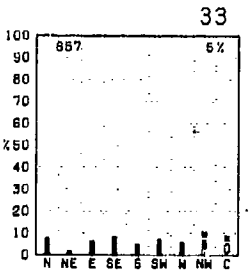


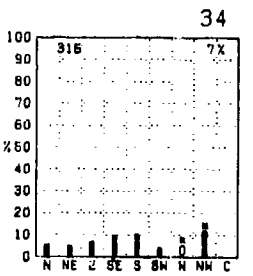


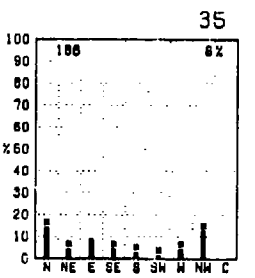










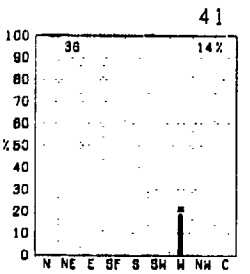


36

INSUFFICIENT DATA

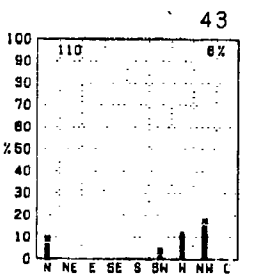
40

INSUFFICIENT DATA



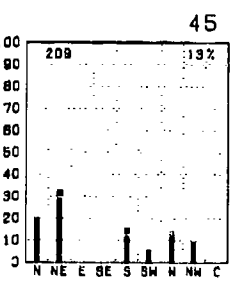
42

INSUFFICIENT DATA



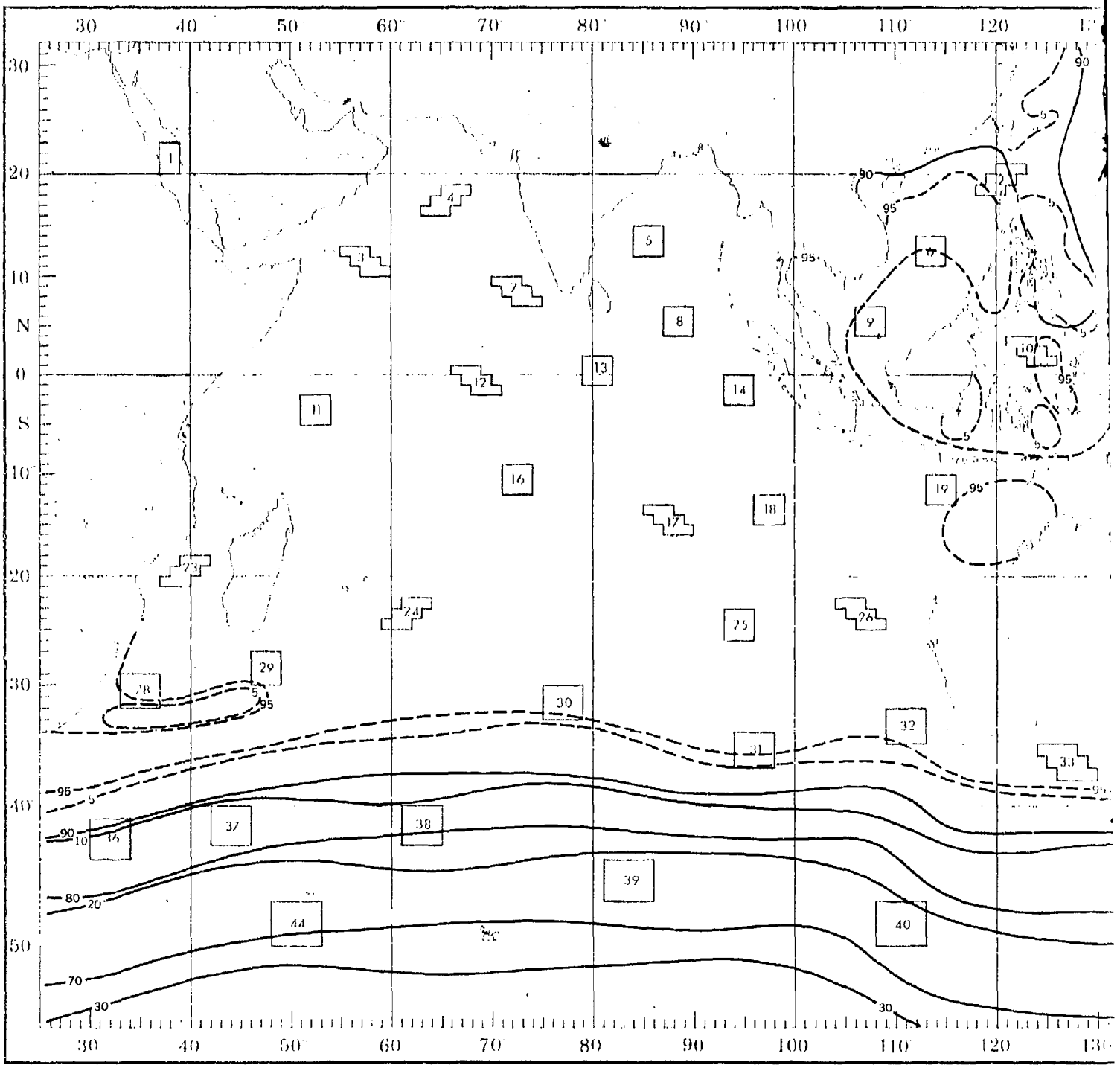
44

INSUFFICIENT DATA



ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY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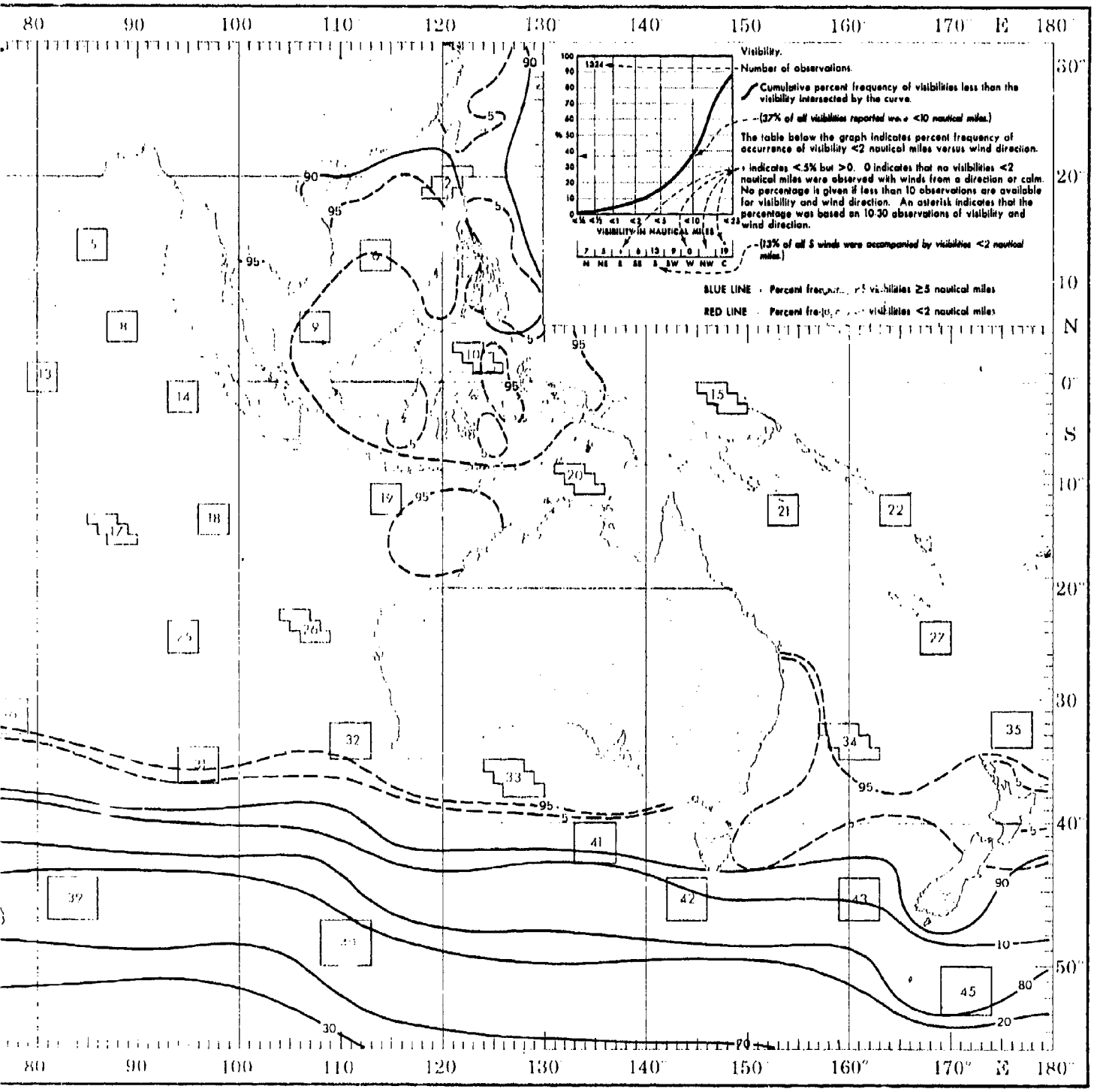
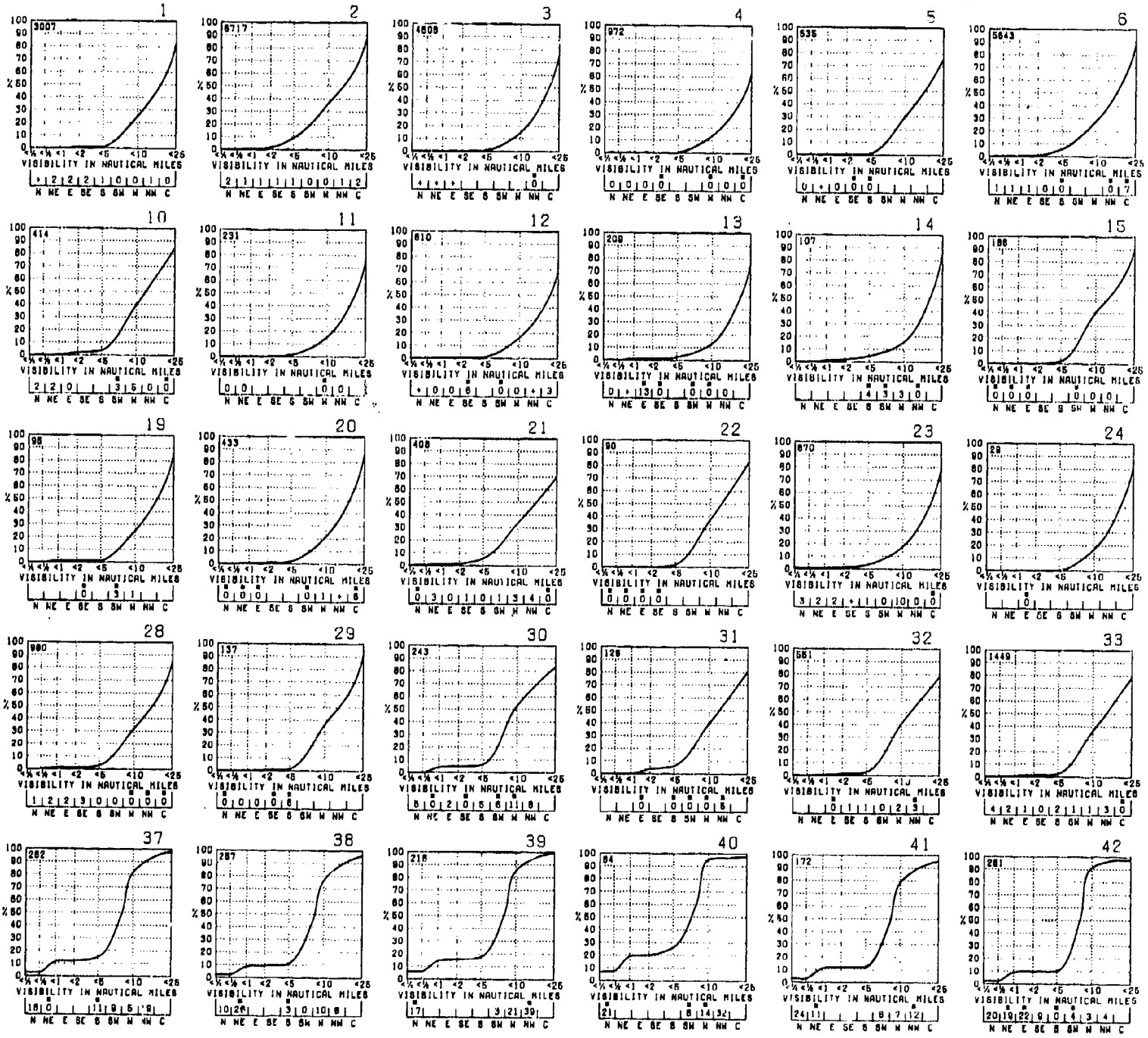
VISIBILITY

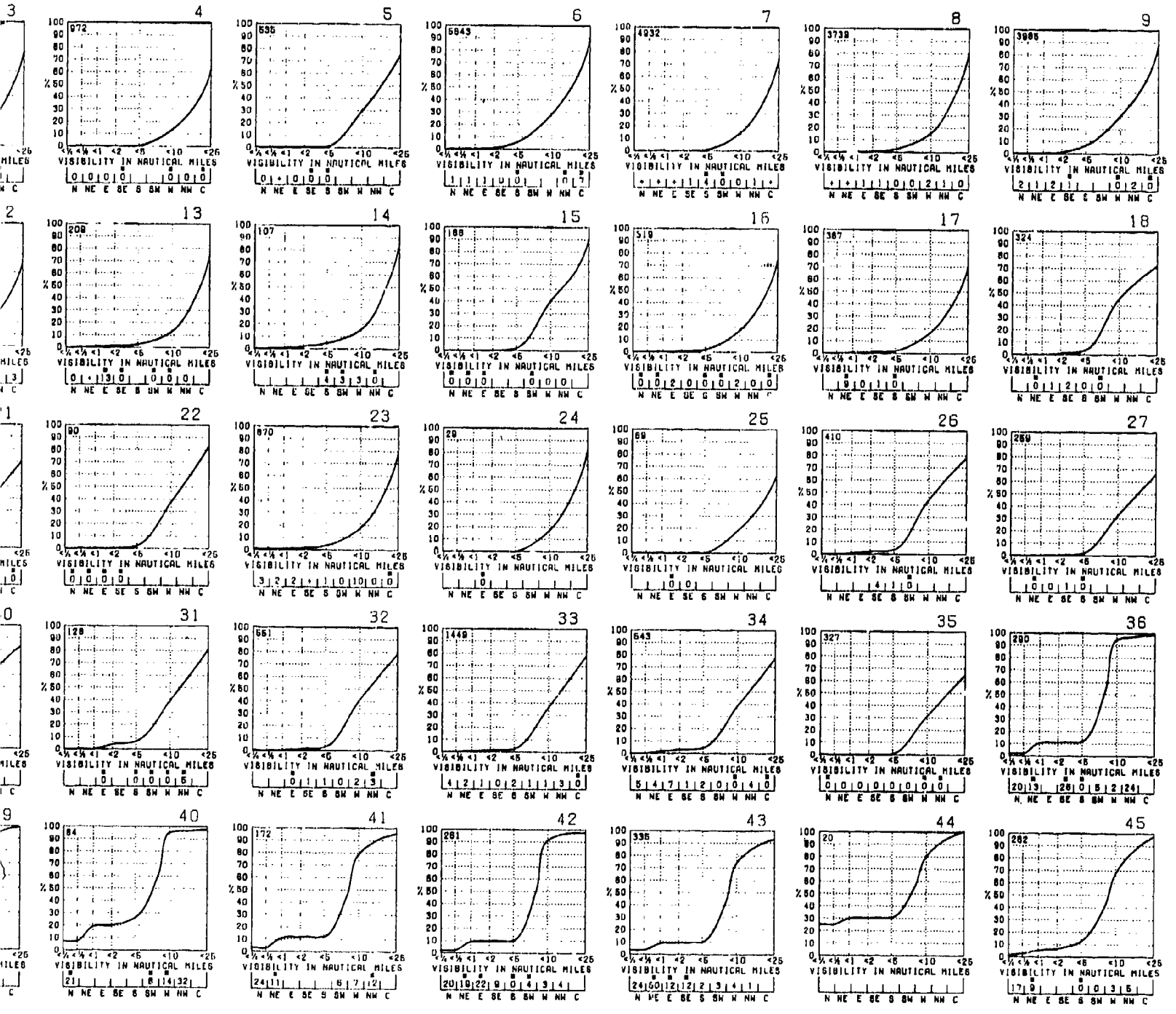

Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
• indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all 5 winds were accompanied by visibilities <2 nautical miles.)
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

VISIBILITY



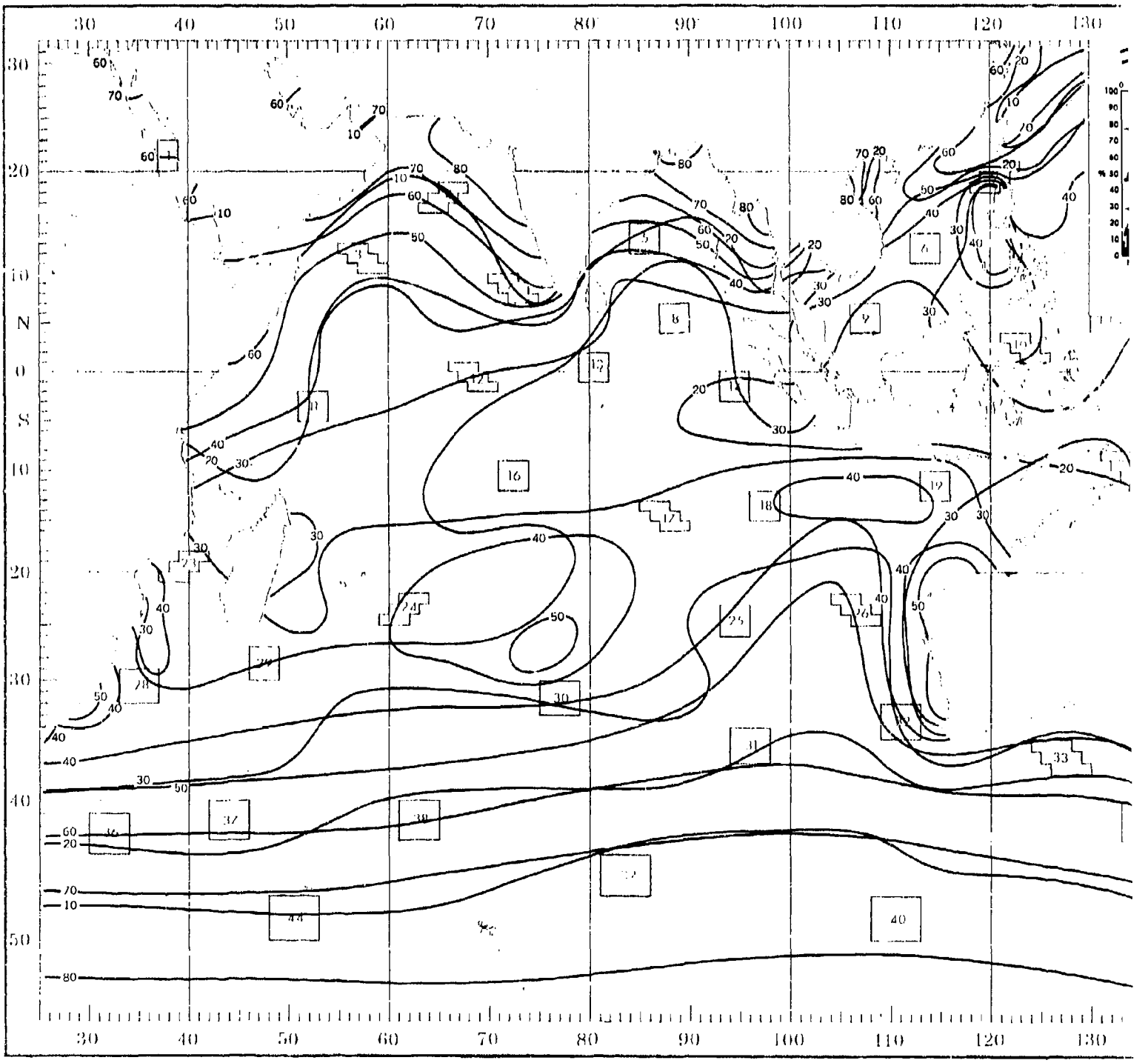
Graphs represent the objective compilation of available data for specified areas without reg
The Isopleth analyses (opposite page) are based on all available data subjectively adjusted

JANUARY

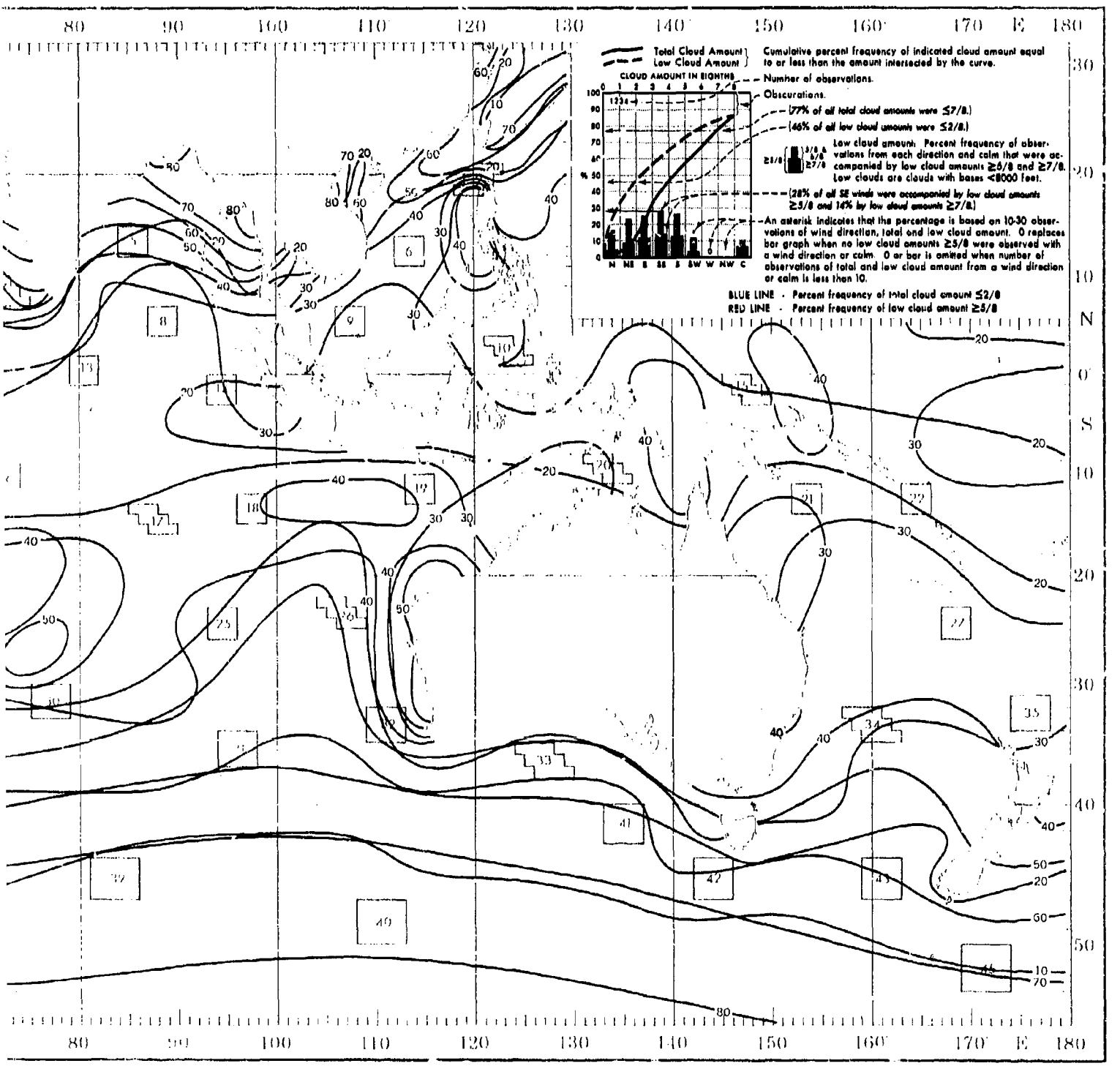


) objective compilation of available data for specified areas without regard to suspected biases.
s (opposite page) are based on all available data subjectively adjusted where bias was evident.

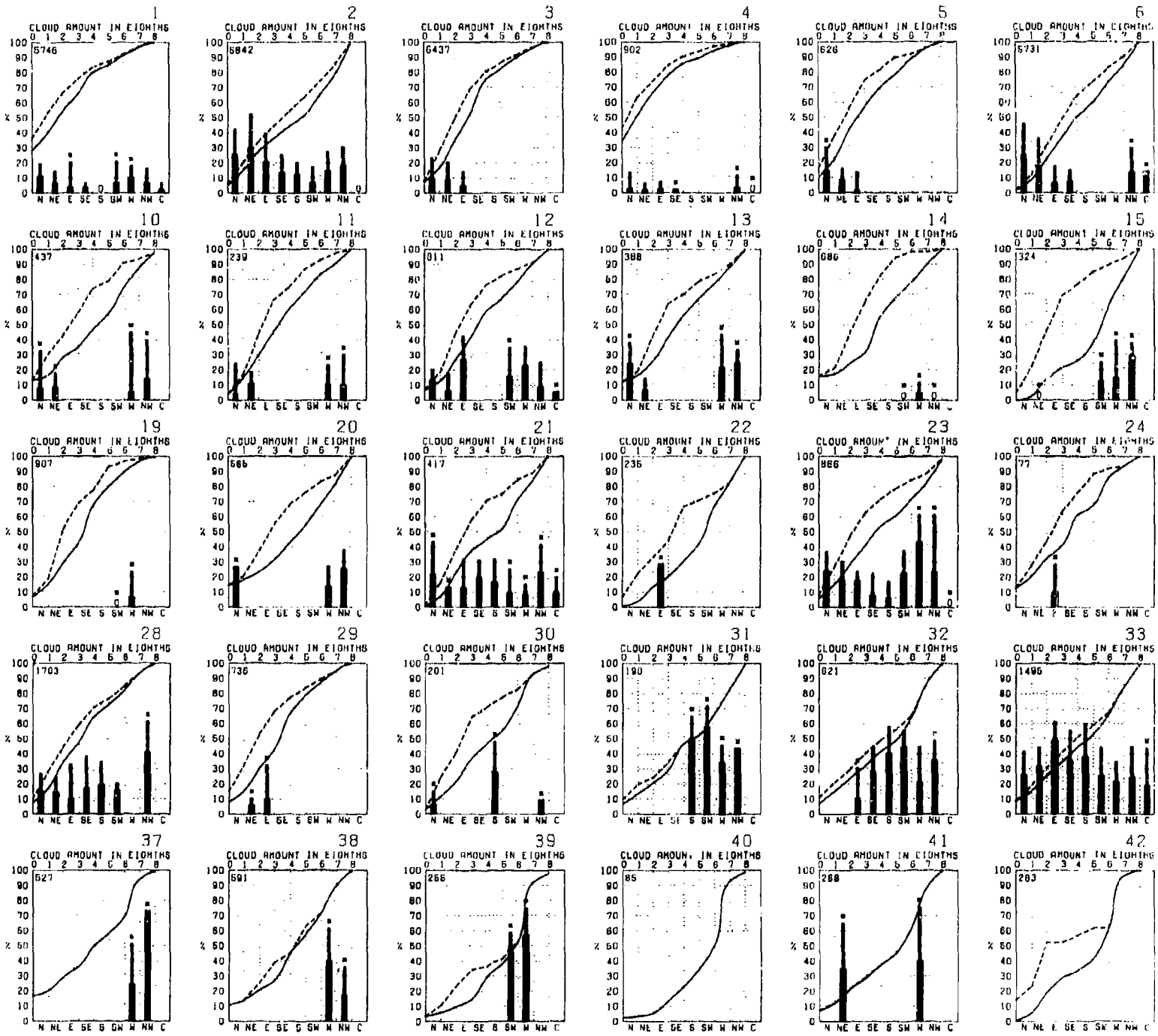
JANUARY



CLOUD COVER

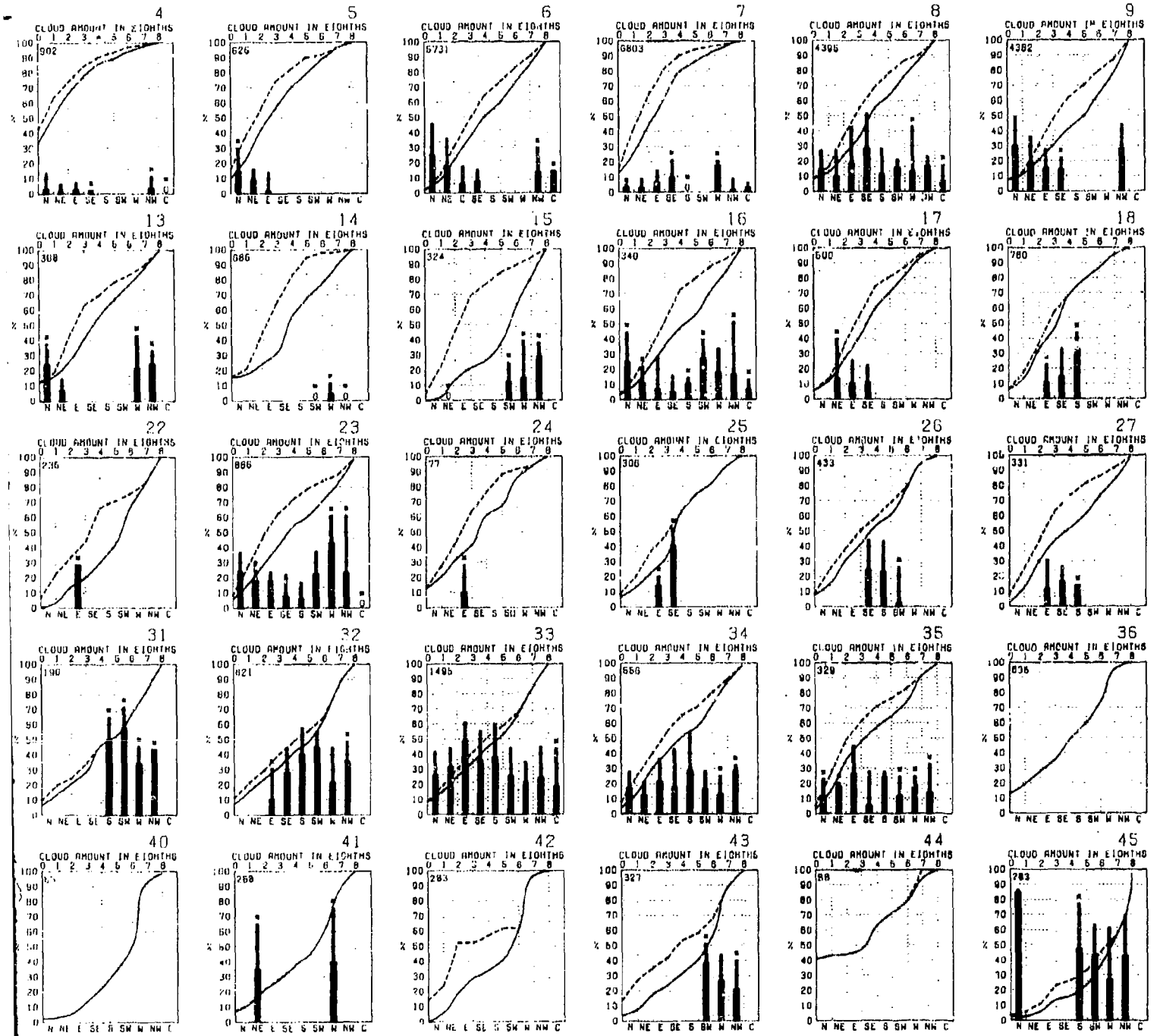

Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount. Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥6/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



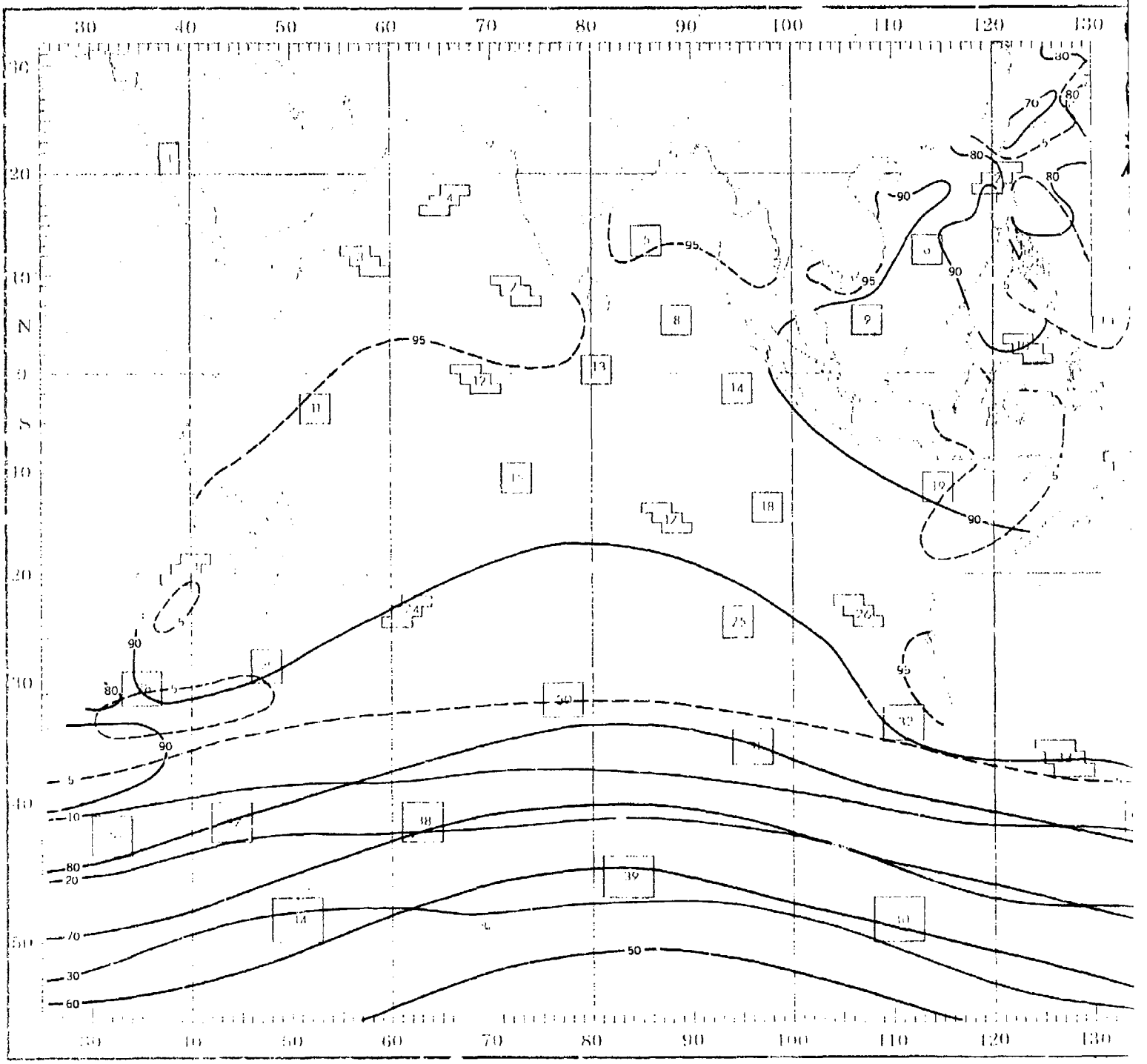
Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

JANUARY



ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY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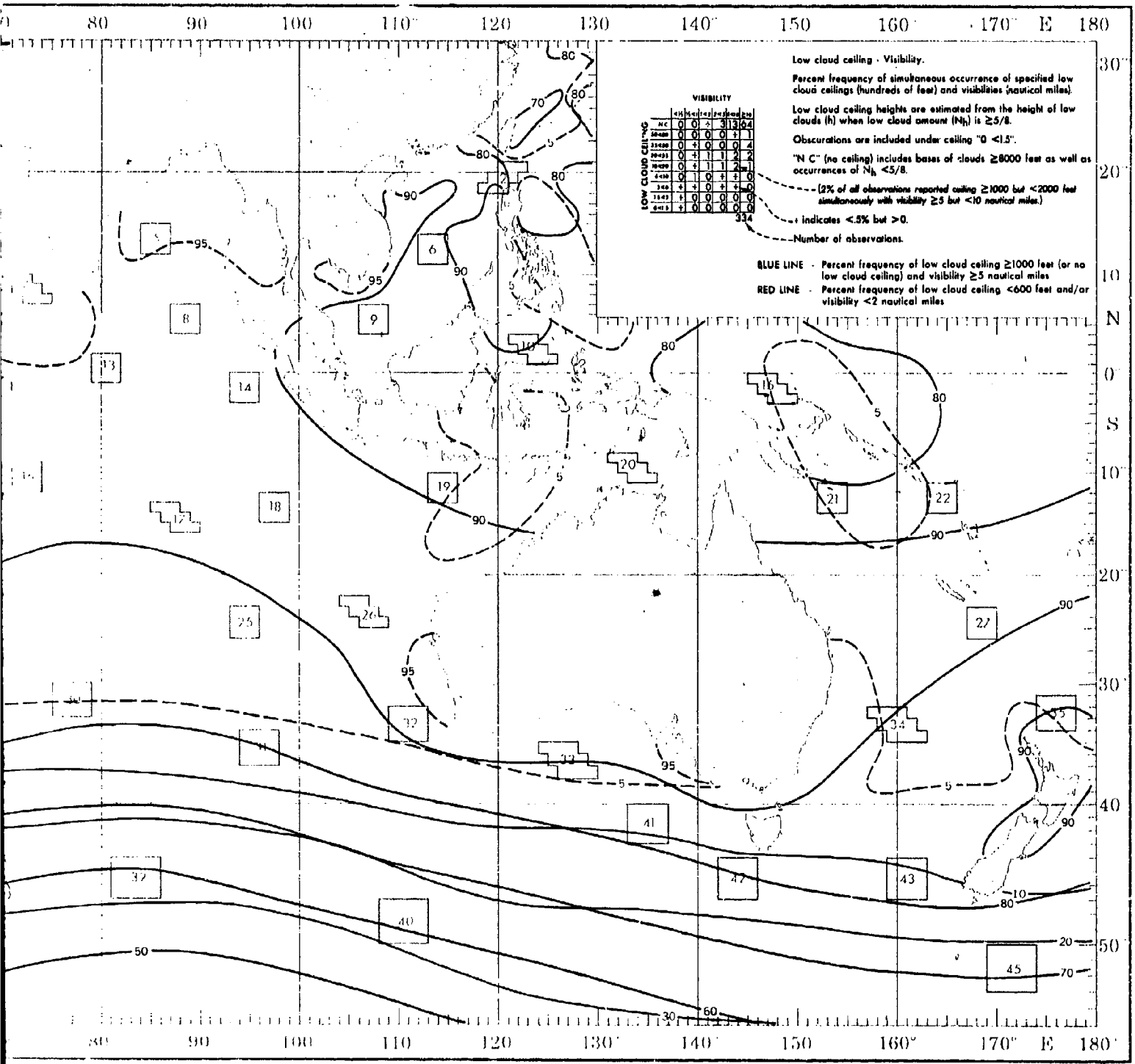
CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	8	78
50-<80	0	0	0	*	*	*
35-<50	0	0	0	0	*	2
20-<35	0	0	0	*	1	4
10-<20	0	0	0	0	1	5
5-<10	0	0	0	0	*	1
3-<5	0	0	0	0	*	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

1058

2

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	2	11	43
50-<80	0	0	0	*	*	*
35-<50	0	0	0	*	1	1
20-<35	0	0	*	1	3	5
10-<20	*	*	*	3	8	9
5-<10	0	*	*	2	5	7
3-<5	*	*	*	1	1	*
1-<3	0	0	*	*	*	*
0-<1	*	*	*	*	*	*

5620

3

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	*	7	78
50-<80	0	0	0	0	*	2
35-<50	0	0	0	0	*	4
20-<35	0	0	0	*	*	5
10-<20	0	0	0	*	1	6
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	*
1-<3	0	0	0	0	0	*
0-<1	0	0	0	0	0	0

1394

4

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	3	88
50-<80	0	0	0	0	0	*
35-<50	0	0	0	0	*	2
20-<35	0	0	0	0	1	1
10-<20	0	0	0	*	*	3
5-<10	0	0	0	0	*	*
3-<5	0	0	0	0	0	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

617

5

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	0	5	78
50-<80	0	0	0	0	1	2
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	1	2
10-<20	0	0	0	*	2	4
5-<10	0	0	0	0	1	1
3-<5	0	0	0	0	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	*	0	0

259

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	*	*	1	1	10
50-<80	0	0	0	*	*	*
35-<50	0	0	0	*	*	*
20-<35	0	0	0	*	2	7
10-<20	*	0	*	2	6	6
5-<10	*	*	*	1	3	3
3-<5	*	*	*	*	1	1
1-<3	0	0	*	*	*	*
0-<1	*	*	*	*	*	*

4

10

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	82
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	2	2
10-<20	0	0	0	0	0	6
5-<10	0	0	0	0	2	4
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

68

11

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	71
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	1	2
10-<20	0	0	0	1	1	10
5-<10	0	0	0	*	*	2
3-<5	0	0	0	*	*	*
1-<3	0	0	0	*	*	*
0-<1	0	0	*	1	0	0

147

12

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	75
50-<80	0	0	0	0	0	*
35-<50	0	0	0	0	0	4
20-<35	0	0	0	0	1	3
10-<20	0	0	0	0	1	7
5-<10	0	0	0	*	1	2
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	1
0-<1	0	0	0	*	0	0

351

13

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	88
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	1	6
10-<20	0	0	1	0	2	*
5-<10	0	0	0	2	2	0
3-<5	0	0	0	0	1	2
1-<3	0	0	0	0	0	0
0-<1	0	1	0	1	0	0

123

14

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	80
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	2
10-<20	0	0	0	0	0	7
5-<10	0	0	0	0	2	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

65

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	1
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	2
10-<20	0	0	0	2	0	7
5-<10	0	0	0	2	6	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

19

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	8	73
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	6
10-<20	0	0	0	0	4	6
5-<10	0	0	0	0	0	4
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

62

20

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0		5	83
50-<80	0	0	0	0	1	1
35-<50	0	0	0	0	1	0
20-<35	0	0	0	0	1	4
10-<20	0	0	0	1	3	11
5-<10	0	0	0	1	2	5
3-<5	0	0	0	0	2	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

177

21

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	5	84
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	1
20-<35	0	0	0	2	1	2
10-<20	0	0	0	1	4	6
5-<10	0	0	0	2	4	8
3-<5	0	1	0	1	0	1
1-<3	0	0	0	1	0	0
0-<1	0	0	0	0	0	0

108

22

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	3	0	70
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	3	0
10-<20	0	0	0	0	8	9
5-<10	0	0	0	0	3	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

33

23

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	4	08
50-<80	0	0	0	0	*	*
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	1	4
10-<20	0	0	*	*	2	7
5-<10	0	*	*	*	1	5
3-<5	0	0	0	1	*	*
1-<3	1	*	0	0	*	0
0-<1	0	0	0	1	1	0

672

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	7
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	0
10-<20	0	0	0	0	0	0
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

22

28

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	0	4	67
50-<80	0	0	0	0	0	1
35-<50	0	0	0	*	*	2
20-<35	0	0	0	*	*	5
10-<20	0	0	0	*	3	7
5-<10	0	0	0	*	2	5
3-<5	0	0	0	0	*	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	*	0

514

29

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	73
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	2	0
20-<35	0	0	0	0	0	2
10-<20	0	0	0	0	2	8
5-<10	0	0	0	0	2	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

62

30

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	75
50-<80	0	3	0	0	0	3
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	4
10-<20	0	0	0	0	0	8
5-<10	0	0	0	0	1	1
3-<5	0	0	0	0	0	3
1-<3	0	0	0	1	0	0
0-<1	0	0	0	0	0	1

69

31

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	43
50-<80	0	0	0	0	3	1
35-<50	0	0	0	0		11
20-<35	0	0	0	0		4
10-<20	0	0	0	1	0	17
5-<10	0	0	0	0	4	11
3-<5	0	0	0	3	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

78

32

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	3	45
50-<80	0	0	0	0	1	1
35-<50	0	0	0	*	0	9
20-<35	0	0	0	1	2	7
10-<20	0	0	0	1	3	22
5-<10	0	0	0	0	*	3
3-<5	0	0	0	*	0	1
1-<3	L	0	0	*	0	0
0-<1	0	0	0	0	0	0

303

33

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	C	0	0	*	3	40
50-<80	0	0	0	0	*	*
35-<50	0	0	*	*	1	1
20-<35	0	0	0	*	1	1
10-<20	0	0	0	0	2	1
5-<10	0	0	0	*	1	1
3-<5	0	0	0	*	*	*
1-<3	0	0	0	*	0	*
0-<1	*	0	0	0	0	0

37

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	31
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	3	11
10-<20	0	0	0	0	3	22
5-<10	0	3	0	0	3	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	3	0	0

35

38

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	2	2	11	36
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	2
20-<35	0	0	0	2	7	2
10-<20	2	0	0	0	4	13
5-<10	0	0	0	0	2	4
3-<5	0	0	0	0	0	2
1-<3	0	0	0	0	0	0
0-<1	4	0	0	0	0	0

46

39

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	8	36
50-<80	0	0	0	0	0	5
35-<50	0	0	0	0	0	5
20-<35	0	0	3	8	3	14
10-<20	0	0	0	0	5	16
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	3	0	0

37

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	31
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	8
20-<35	0	0	0	0	0	10
10-<20	0	0	0	0	18	13
5-<10	0	0	0	0	10	10
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

39

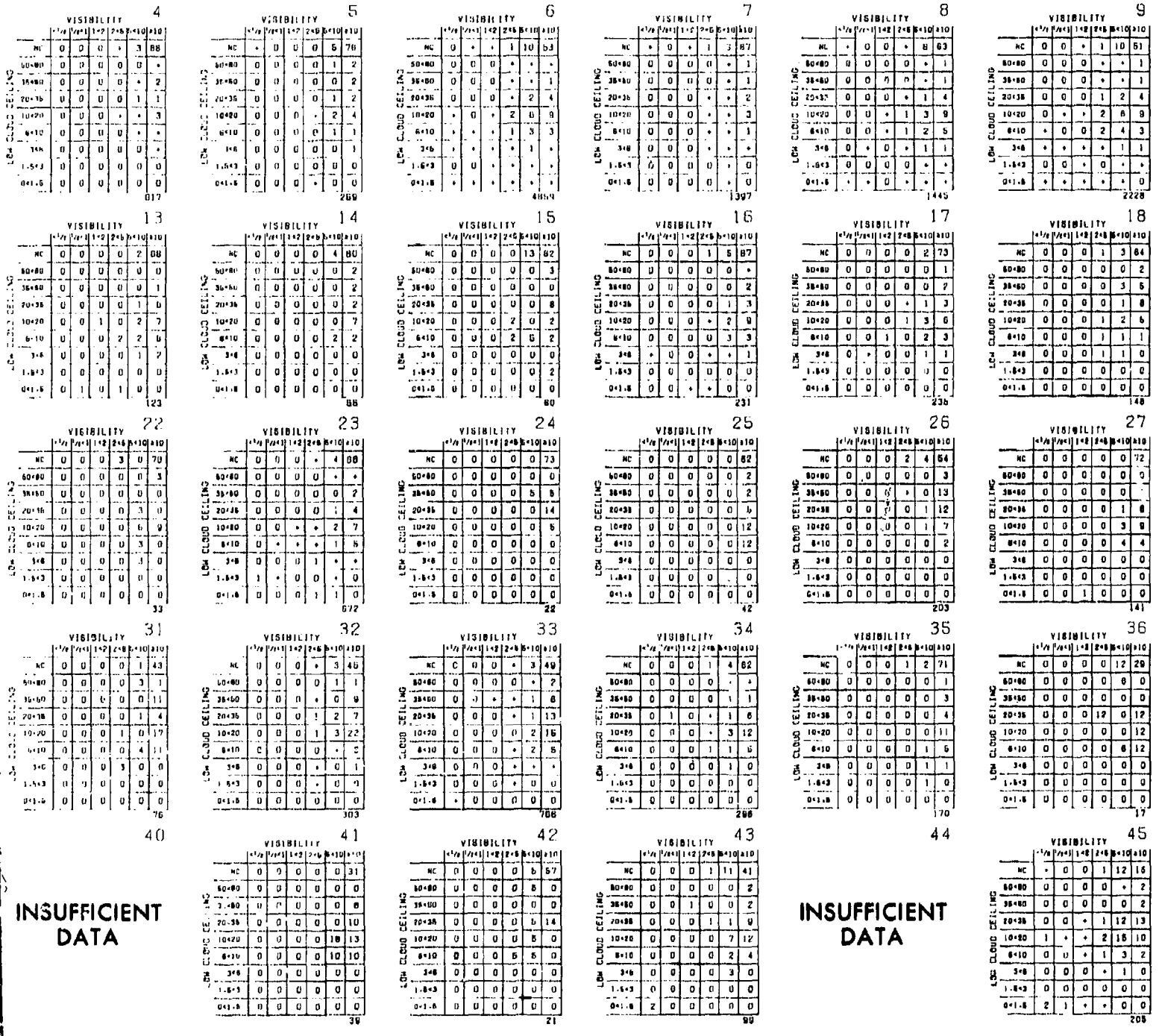
42

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0		5
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	8
20-<35	0	0	0	0	0	14
10-<20	0	0	0	0	5	0
5-<10	0	0	0	0	5	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

21

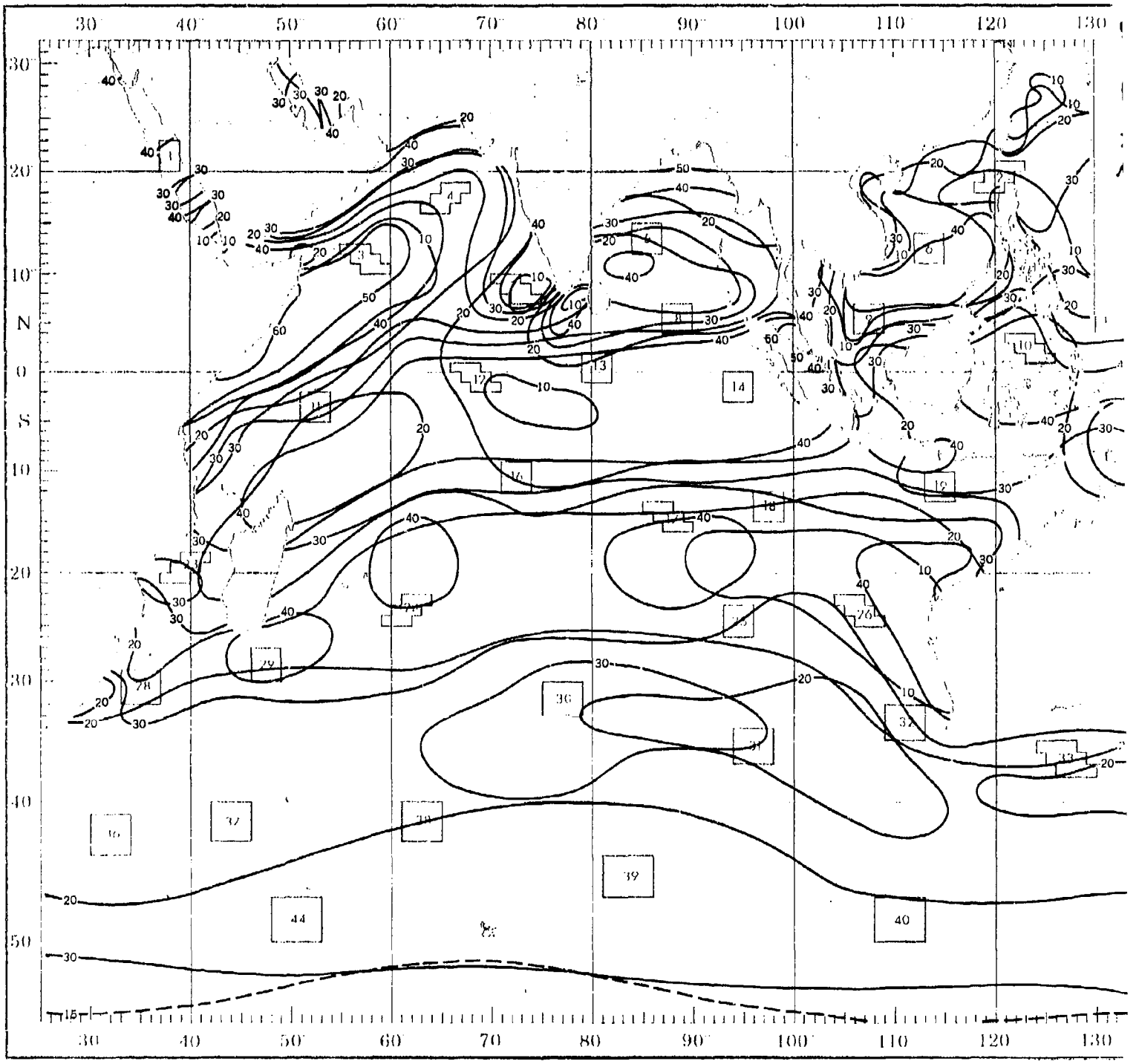
Graphs represent the objective compilation of available data for specified areas without r
The Isopleth analyses (opposite page) are based on all available data subjectively adjust

JANUARY



ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY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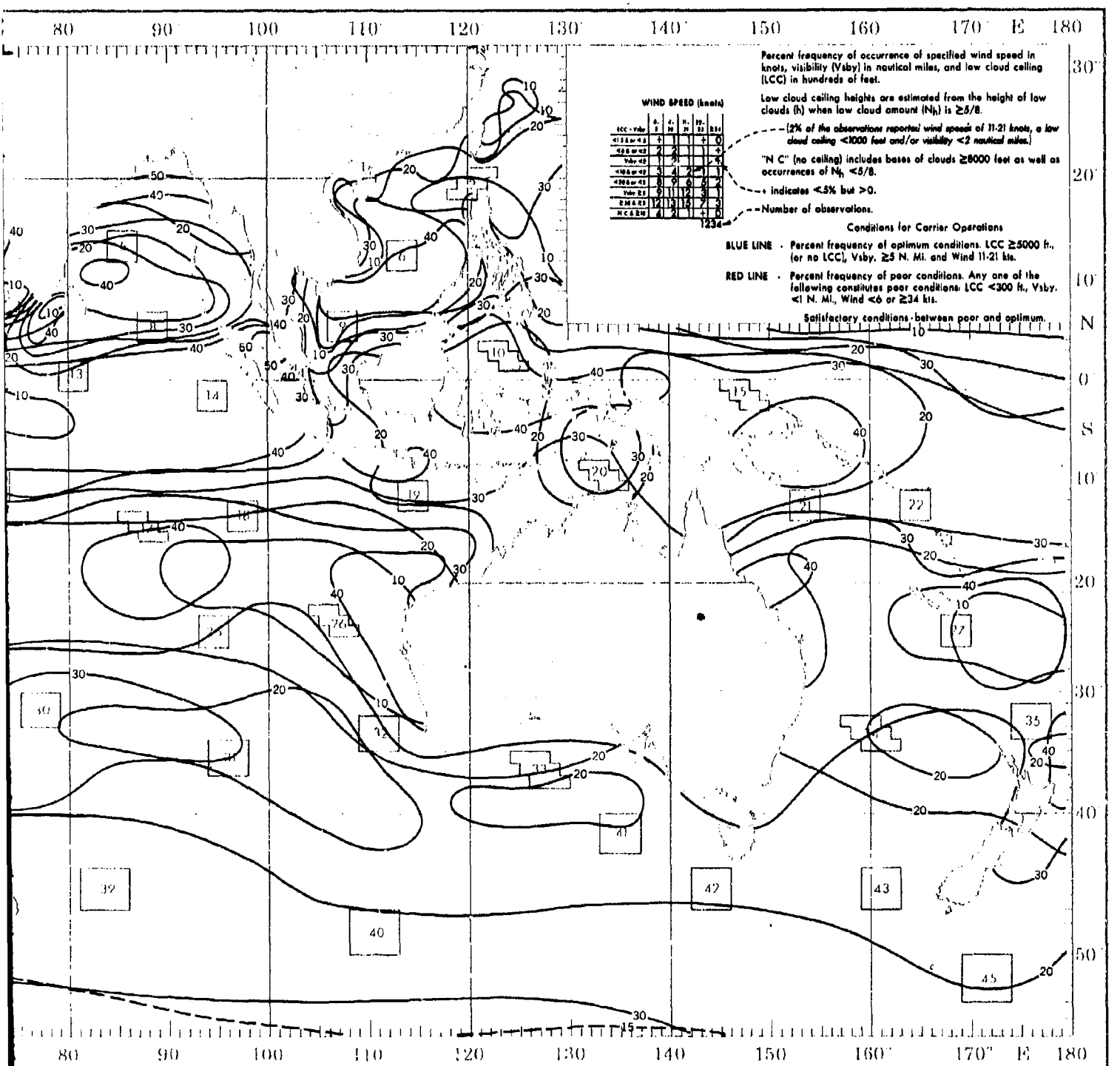
WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	1	1	+	0
<20 & OR <5	1	3	4	+	0
VSBY ≥5	10	42	44	3	0
≥80 & ≥5	9	37	37	2	0
NC & ≥10	8	34	35	2	0

1044

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	+	+	+	+
<8 & OR <2	0	+	1	2	1
VSBY <2	0	+	+	+	+
<10 & OR <2	+	1	6	6	1
<20 & OR <5	+	2	14	16	3
VSBY ≥5	2	15	39	30	4
≥80 & ≥5	2	12	24	14	2
NC & ≥10	2	11	19	10	1

6503

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	2	+	0
<20 & OR <5	0	3	6	1	0
VSBY ≥5	1	36	59	4	+
≥80 & ≥5	1	30	48	3	+
NC & ≥10	1	29	46	2	+

1386

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	+	0	0
<20 & OR <5	0	2	3	0	0
VSBY ≥5	7	50	42	1	0
≥80 & ≥5	7	46	37	1	0
NC & ≥10	7	44	36	1	0

609

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	+	0
<8 & OR <2	0	+	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	2	+	0
<20 & OR <5	1	2	5	2	0
VSBY ≥5	5	58	33	3	+
≥80 & ≥5	5	54	28	2	0
NC & ≥10	5	48	23	1	0

258

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	8	0	0	0
<20 & OR <5	2	13	0	0	0
VSBY ≥5	13	70	17	0	0
≥80 & ≥5	11	66	16	0	0
NC & ≥10	11	66	16	0	0

83

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<8 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	1	0	0
<20 & OR <5	2	10	6	0	0
VSBY ≥5	8	85	26	0	0
≥80 & ≥5	8	84	17	0	0
NC & ≥10	8	49	17	0	0

142

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	+	0	0	0
<8 & OR <2	+	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	4	1	0	0
<20 & OR <5	2	9	4	0	0
VSBY ≥5	18	68	17	0	0
≥80 & ≥5	13	64	10	0	0
NC & ≥10	12	62	10	0	0

338

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	2	0	0
<8 & OR <2	1	2	2	0	0
VSBY <2	0	1	1	0	0
<10 & OR <2	2	7	5	0	0
<20 & OR <5	4	13	6	0	0
VSBY ≥5	11	63	21	0	0
≥80 & ≥5	7	49	15	0	0
NC & ≥10	7	47	16	0	0

123

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	0	0
<20 & OR <5	2	8	4	0	0
VSBY ≥5	23	58	17	2	0
≥80 & ≥5	21	48	13	2	0
NC & ≥10	19	45	13	2	0

63

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	0	0
<20 & OR <5	0	8	6	0	0
VSBY ≥5	10	73	15	2	0
≥80 & ≥5	10	63	6	2	0
NC & ≥10	8	60	4	2	0

52

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	4	1	0
<20 & OR <5	1	10	10	2	0
VSBY ≥5	10	42	43	3	0
≥80 & ≥5	8	31	31	1	0
NC & ≥10	8	31	28	0	0

172

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	1	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	8	3	1	0
<20 & OR <5	3	13	8	2	0
VSBY ≥5	12	53	28	2	0
≥80 & ≥5	10	42	19	0	0
NC & ≥10	9	39	18	0	0

148

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	3	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	6	0
<20 & OR <5	0	12	6	6	0
VSBY ≥5	15	42	30	9	0
≥80 & ≥5	12	33	24	3	0
NC & ≥10	9	33	24	3	0

33

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	+	+	+	1
<8 & OR <2	0	+	1	1	2
VSBY <2	0	+	+	0	1
<10 & OR <2	+	3	4	2	2
<20 & OR <5	+	6	8	3	3
VSBY ≥5	9	45	35	6	2
≥80 & ≥5	8	37	25	3	0
NC & ≥10	8	36	23	1	0

662

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	+	0	0	0
<8 & OR <2	+	1	0	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	1	3	4	1	+
<20 & OR <5	1	8	8	2	1
VSBY ≥5	6	41	44	6	1
≥80 & ≥5	5	30	32	6	+
NC & ≥10	4	28	30	6	+

506

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	6	0	0
<20 & OR <5	0	3	13	2	0
VSBY ≥5	6	27	50	18	0
≥80 & ≥5	6	24	37	11	0
NC & ≥10	6	21	34	11	0

62

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<8 & OR <2	4	1	3	0	0
VSBY <2	3	0	0	0	0
<10 & OR <2	4	3	4	0	0
<20 & OR <5	4	7	8	0	0
VSBY ≥5	14	64	18	1	0
≥80 & ≥5	13	52	12	1	0
NC & ≥10	12	51	12	1	0

89

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	0	1
VSBY <2	0	0	0	0	0
<10 & OR <2	0	7	8	1	1
<20 & OR <5	0	16	11	5	1
VSBY ≥5	5	57	20	11	4
≥80 & ≥5	5	30	7	4	3
NC & ≥10	5	28	5	4	1

78

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	1	0
<20 & OR <5	+	9	17	8	+
VSBY ≥5	2	33	48	14	1
≥80 & ≥5	2	19	20	8	1
NC & ≥10	2	17	18	7	1

303

37

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	3	0	0	0
<8 & OR <2	0	3	3	0	0
VSBY <2	0	0	3	0	0
<10 & OR <2	0	6	8	8	0
<20 & OR <5	0	8	33	11	0
VSBY ≥5	0	19	42	17	3
≥80 & ≥5	0	11	17	8	0
NC & ≥10	0	11	14	8	0

36

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	7	0	0	0
<8 & OR <2	0	7	2	2	0
VSBY <2	0	7	0	2	0
<10 & OR <2	0	7	2	9	0
<20 & OR <5	0	9	20	13	0
VSBY ≥5	2	20	36	22	7
≥80 & ≥5	2	15	16	13	2
NC & ≥10	2	13	13	7	0

46

39

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	6	0	0
VSBY <2	0	0	3	0	0
<10 & OR <2	0	0	6	0	0
<20 & OR <5	0	11	11	11	3
VSBY ≥5	3	24	27	30	3
≥80 & ≥5	3	14	19	8	0
NC & ≥10	3	8	18	8	0

37

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	13	8	0	0
<20 & OR <5	3	23	21	3	3
VSBY ≥5	8	41	46	3	3
≥80 & ≥5	5	10	16	0	0
NC & ≥10	5	10	15	0	0

39

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

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JANUARY

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	+	0	0
<20 & OR <5	0	2	3	0	0
VSBY ≥5	7	50	42	1	0
≥50 & ≥5	7	48	37	1	0
NC & ≥10	7	44	38	1	0

609

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	+	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	2	+	0
<20 & OR <5	1	2	5	2	0
VSBY ≥5	5	58	33	3	+
≥50 & ≥5	5	54	26	2	0
NC & ≥10	5	48	23	1	0

258

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	+
<5 & OR <2	+	+	1	1	+
VSBY <2	+	+	+	+	+
<10 & OR <2	+	1	5	4	1
<20 & OR <5	+	2	15	10	1
VSBY ≥5	1	17	57	19	2
≥50 & ≥5	1	14	39	8	+
NC & ≥10	1	13	33	8	+

4839

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	+	+	+	0	0
VSBY <2	+	+	0	0	0
<10 & OR <2	+	1	+	0	0
<20 & OR <5	1	4	1	0	0
VSBY ≥5	19	70	10	+	0
≥50 & ≥5	18	64	9	0	0
NC & ≥10	16	63	9	0	0

1388

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	0	0
<5 & OR <2	+	1	2	+	0
VSBY <2	0	+	+	0	0
<10 & OR <2	+	4	8	+	0
<20 & OR <5	1	10	13	1	0
VSBY ≥5	8	47	44	1	0
≥50 & ≥5	6	35	30	+	0
NC & ≥10	4	32	28	+	0

1439

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<5 & OR <2	0	1	2	+	+
VSBY <2	0	+	1	0	0
<10 & OR <2	+	3	7	2	+
<20 & OR <5	+	6	19	5	+
VSBY ≥5	2	29	54	8	+
≥50 & ≥5	2	22	35	4	0
NC & ≥10	1	19	28	2	0

2215

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	2	0	0
<5 & OR <2	1	2	2	0	0
VSBY <2	0	1	1	0	0
<10 & OR <2	2	7	5	0	0
<20 & OR <5	4	13	6	0	0
VSBY ≥5	11	63	21	0	0
≥50 & ≥5	7	49	15	0	0
NC & ≥10	7	47	16	0	0

123

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	0	0
<20 & OR <5	2	8	4	0	0
VSBY ≥5	23	58	17	2	0
≥50 & ≥5	21	49	13	2	0
NC & ≥10	19	46	13	2	0

63

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	2	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	5	2	0
<20 & OR <5	0	7	5	2	0
VSBY ≥5	17	49	29	2	0
≥50 & ≥5	17	44	17	0	0
NC & ≥10	14	37	12	0	0

59

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	+	0
<5 & OR <2	0	2	+	1	0
VSBY <2	0	+	0	+	0
<10 & OR <2	+	6	2	1	0
<20 & OR <5	1	13	6	1	0
VSBY ≥5	16	56	23	3	0
≥50 & ≥5	14	40	16	2	0
NC & ≥10	14	37	15	1	0

229

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	2	0	+
VSBY <2	0	+	+	0	+
<10 & OR <2	0	3	5	0	+
<20 & OR <5	0	5	12	+	+
VSBY ≥5	3	45	48	2	0
≥50 & ≥5	2	39	34	1	0
NC & ≥10	2	37	32	1	0

235

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	1	3	1
<20 & OR <5	1	4	6	3	1
VSBY ≥5	2	39	41	10	3
≥50 & ≥5	1	33	28	5	2
NC & ≥10	1	32	27	3	1

148

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	3	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	6	0
<20 & OR <5	0	12	6	6	0
VSBY ≥5	15	42	30	9	0
≥50 & ≥5	12	33	24	3	0
NC & ≥10	9	33	24	3	0

33

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	1
<5 & OR <2	0	+	1	1	2
VSBY <2	0	+	+	0	1
<10 & OR <2	+	3	4	2	2
<20 & OR <5	+	6	6	3	3
VSBY ≥5	9	45	36	6	2
≥50 & ≥5	8	37	26	3	0
NC & ≥10	8	36	23	1	0

662

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	0	5	0	0
VSBY ≥5	9	32	59	0	0
≥50 & ≥5	9	23	41	0	0
NC & ≥10	9	23	41	0	0

22

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	6	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	10	5	0
<20 & OR <5	0	6	19	5	0
VSBY ≥5	2	40	50	7	0
≥50 & ≥5	2	33	28	2	0
NC & ≥10	2	33	24	2	0

42

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	1	1	0
<20 & OR <5	1	2	8	2	0
VSBY ≥5	3	26	58	12	0
≥50 & ≥5	3	17	35	8	0
NC & ≥10	2	17	29	8	0

202

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	0	8	2	0
<20 & OR <5	0	3	12	5	0
VSBY ≥5	7	36	48	8	0
≥50 & ≥5	7	33	30	3	0
NC & ≥10	7	33	30	3	0

140

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	1
VSBY <2	0	0	0	0	0
<10 & OR <2	0	7	8	1	1
<20 & OR <5	0	18	11	5	1
VSBY ≥5	5	57	20	11	4
≥50 & ≥5	5	30	7	4	3
NC & ≥10	5	28	5	4	1

76

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	1	0
<20 & OR <5	+	9	17	6	+
VSBY ≥5	2	33	48	14	1
≥50 & ≥5	2	19	20	8	1
NC & ≥10	2	17	18	7	1

303

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	1	+	+	0
VSBY <2	0	+	0	0	0
<10 & OR <2	+	3	4	1	0
<20 & OR <5	1	11	12	3	+
VSBY ≥5	7	40	43	7	+
≥50 & ≥5	5	21	24	4	0
NC & ≥10	5	19	21	4	0

759

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	+	1	6	1	0
<20 & OR <5	1	6	13	4	0
VSBY ≥5	8	32	49	9	0
≥50 & ≥5	8	24	33	4	0
NC & ≥10	8	23	31	2	0

291

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	4	2	0
<20 & OR <5	1	6	11	3	0
VSBY ≥5	7	43	45	6	0
≥50 & ≥5	6	36	31	1	0
NC & ≥10	5	34	31	1	0

167

36

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	12	5
<20 & OR <5	0	0	0	29	12
VSBY ≥5	0	18	0	47	24
≥50 & ≥5	0	18	0	24	6
NC & ≥10	0	18	0	6	6

17

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	13	8	0	0
<20 & OR <5	9	23	21	3	3
VSBY ≥5	8	41	46	3	3
≥50 & ≥5	5	10	15	0	0
NC & ≥10	5	10	15	0	0

39

42

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	5	0	0
<20 & OR <5	0	10	5	0	0
VSBY ≥5	5	35	45	10	0
≥50 & ≥5	5	5	45	10	0
NC & ≥10	5	5	40	5	0

20

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	2	0	0
<5 & OR <2	0	0	5	1	0
VSBY <2	0	0	2	1	0
<10 & OR <2	0	0	9	3	0
<20 & OR <5	0	7	16	9	1
VSBY ≥5	8	25	54	9	1
≥50 & ≥5	8	13	32	3	0
NC & ≥10	5	13	21	2	0

99

44

INSUFFICIENT DATA

45

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	1	2	2	1	0
<5 & OR <2	1	2	5	2	0
VSBY <2	1	2	3	1	0
<10 & OR <2	1	3	10	2	0
<20 & OR <5	1	7	22	15	1
VSBY ≥5	0	11	46	28	1
≥50 & ≥5	0	4	18	7	1
NC & ≥10	0	2	10	4	0

199

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY

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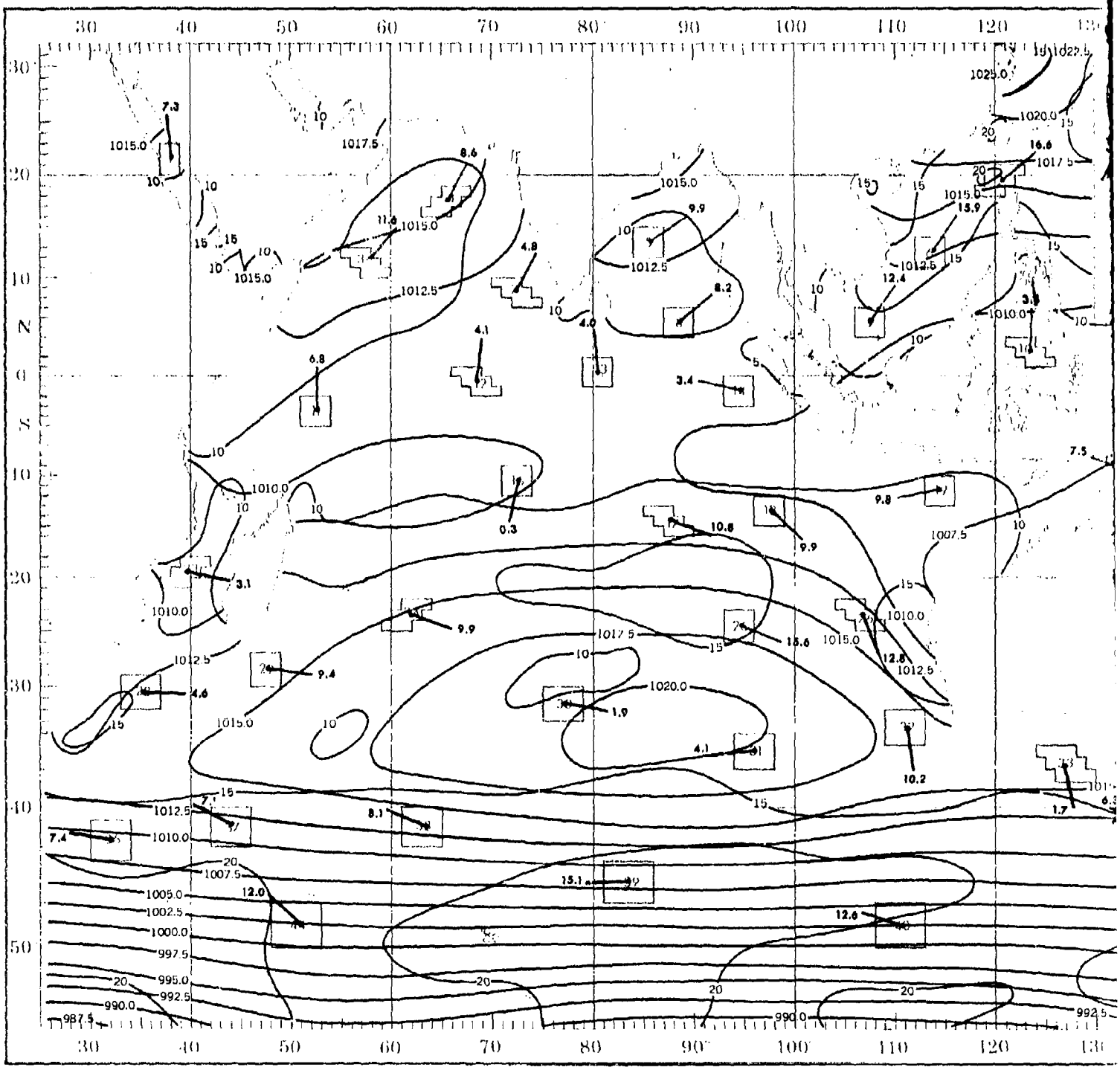
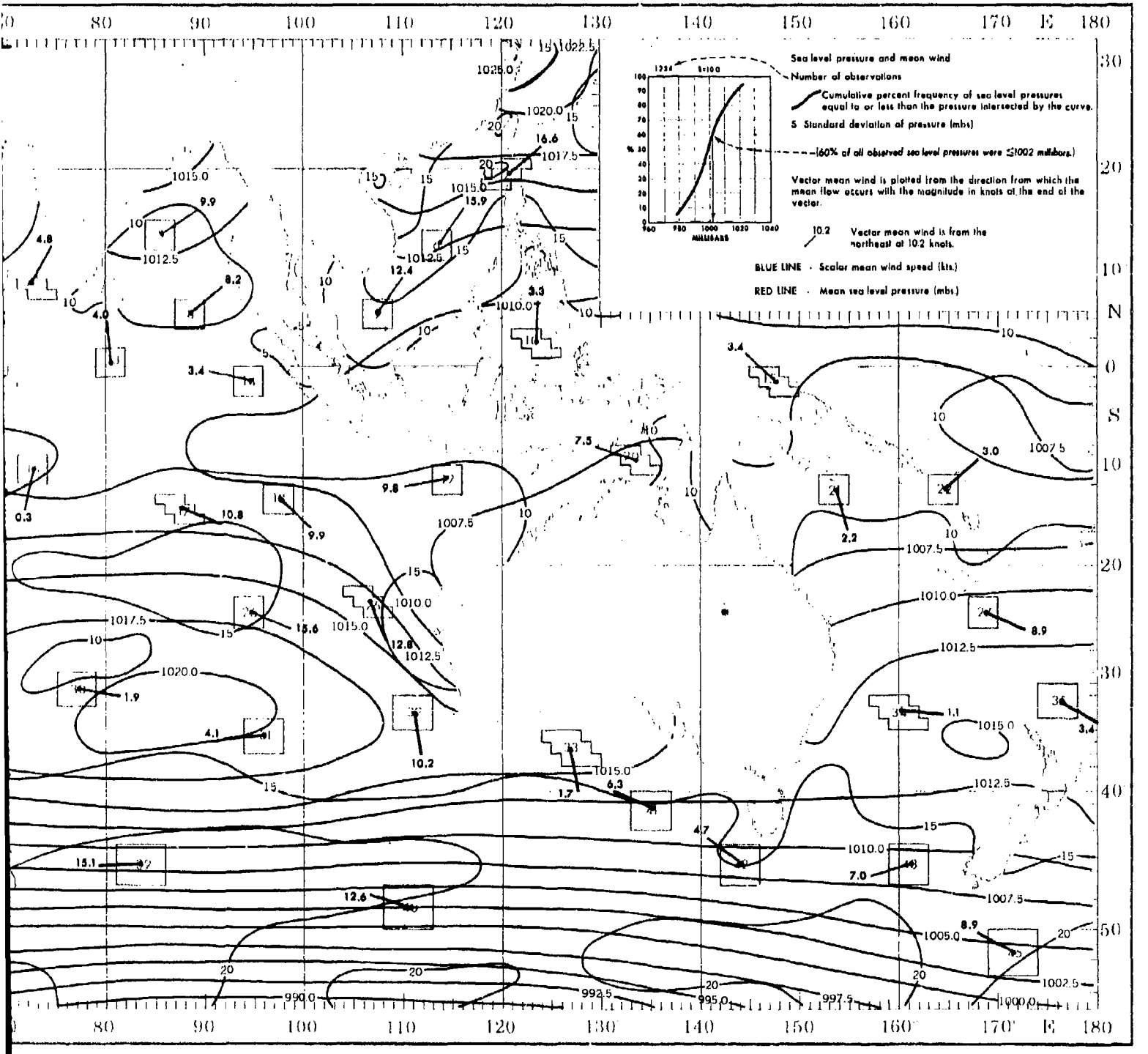
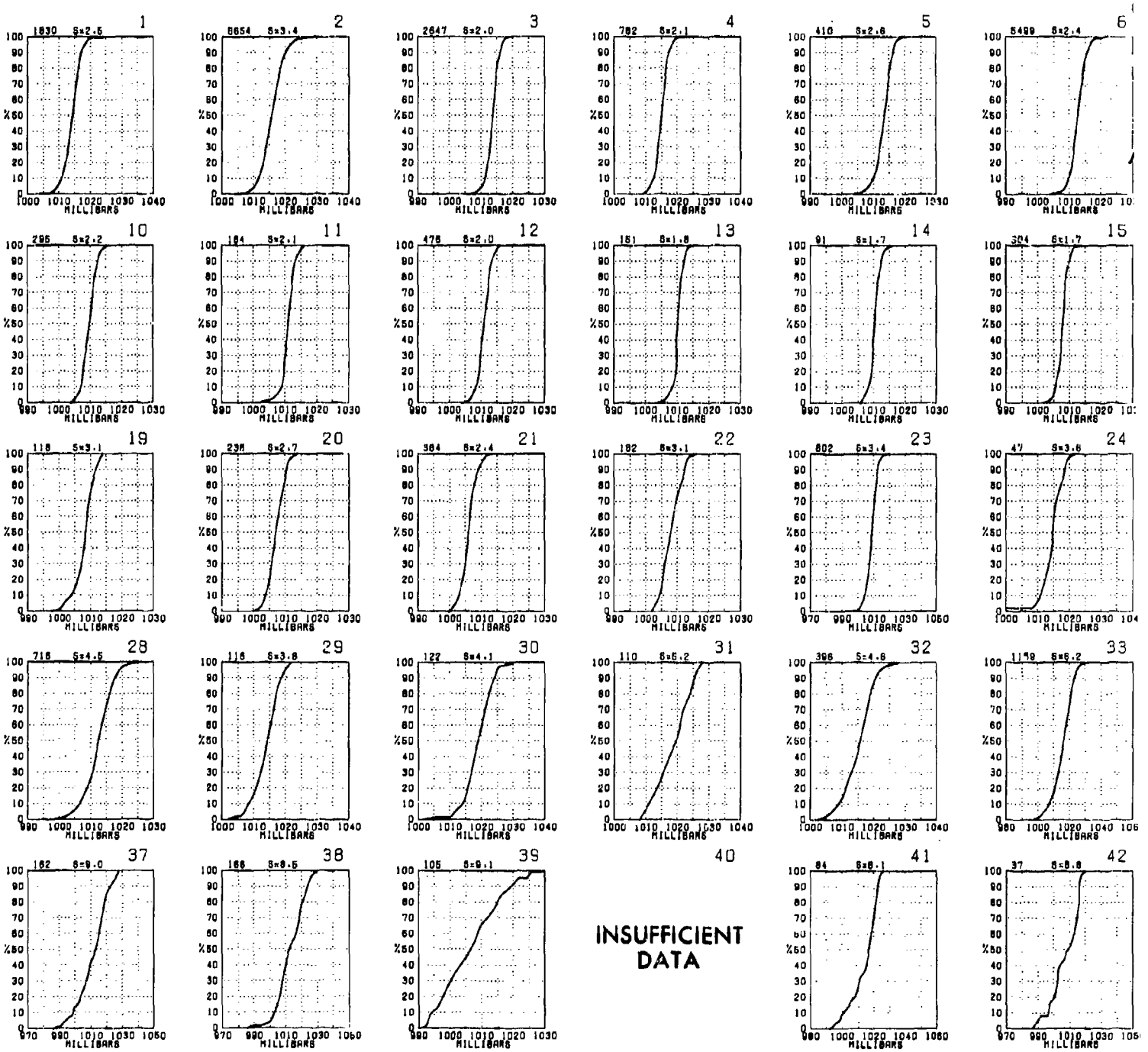


SEA LEVEL PRESSURE AND MEAN WIND



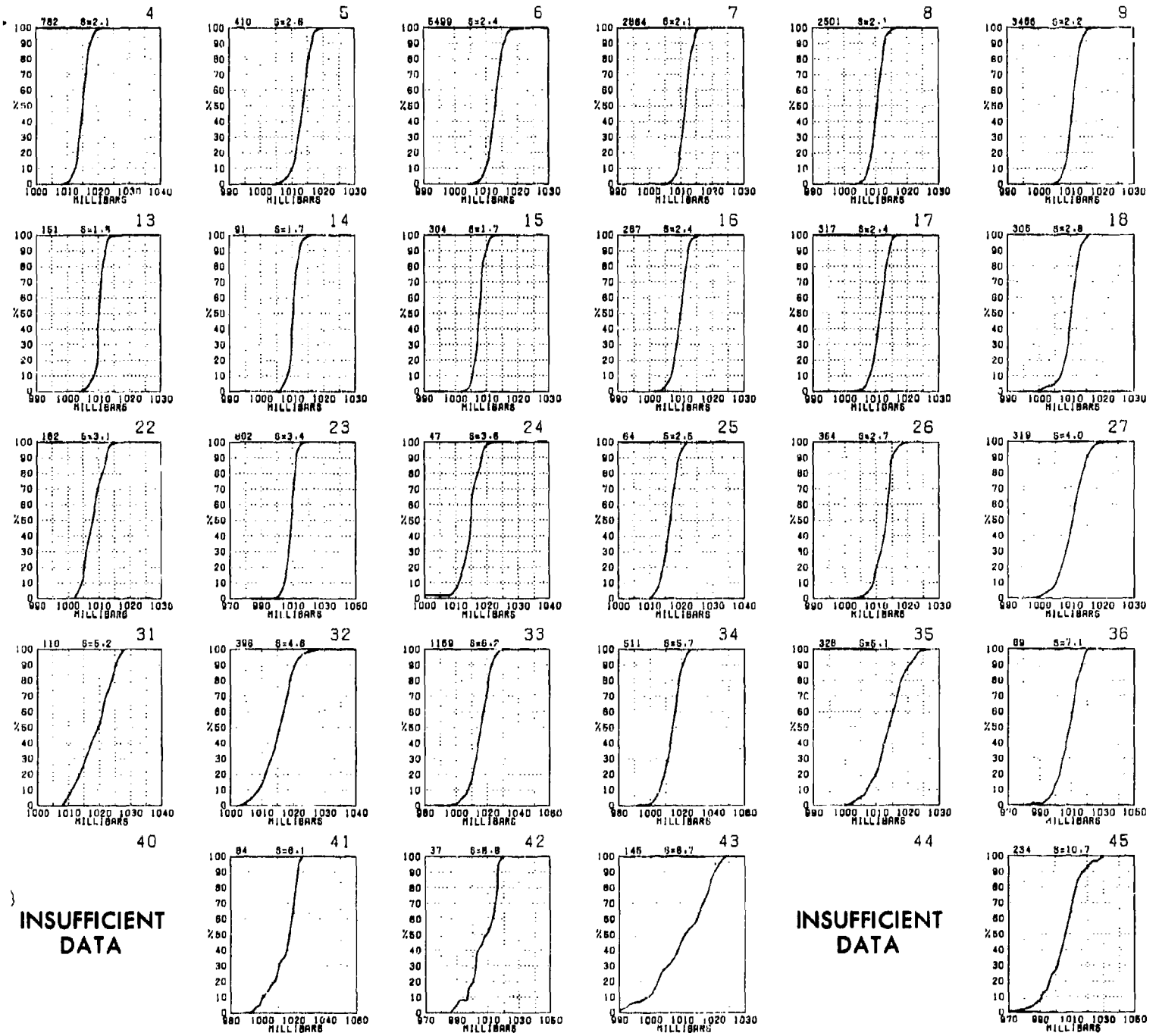
SEA LEVEL PRESSURE



Graphs represent the objective compilation of available data for specified areas without

The Isopleth analyses (opposite page) are based on all available data subjectively adjust

JANUARY



INSUFFICIENT DATA

INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
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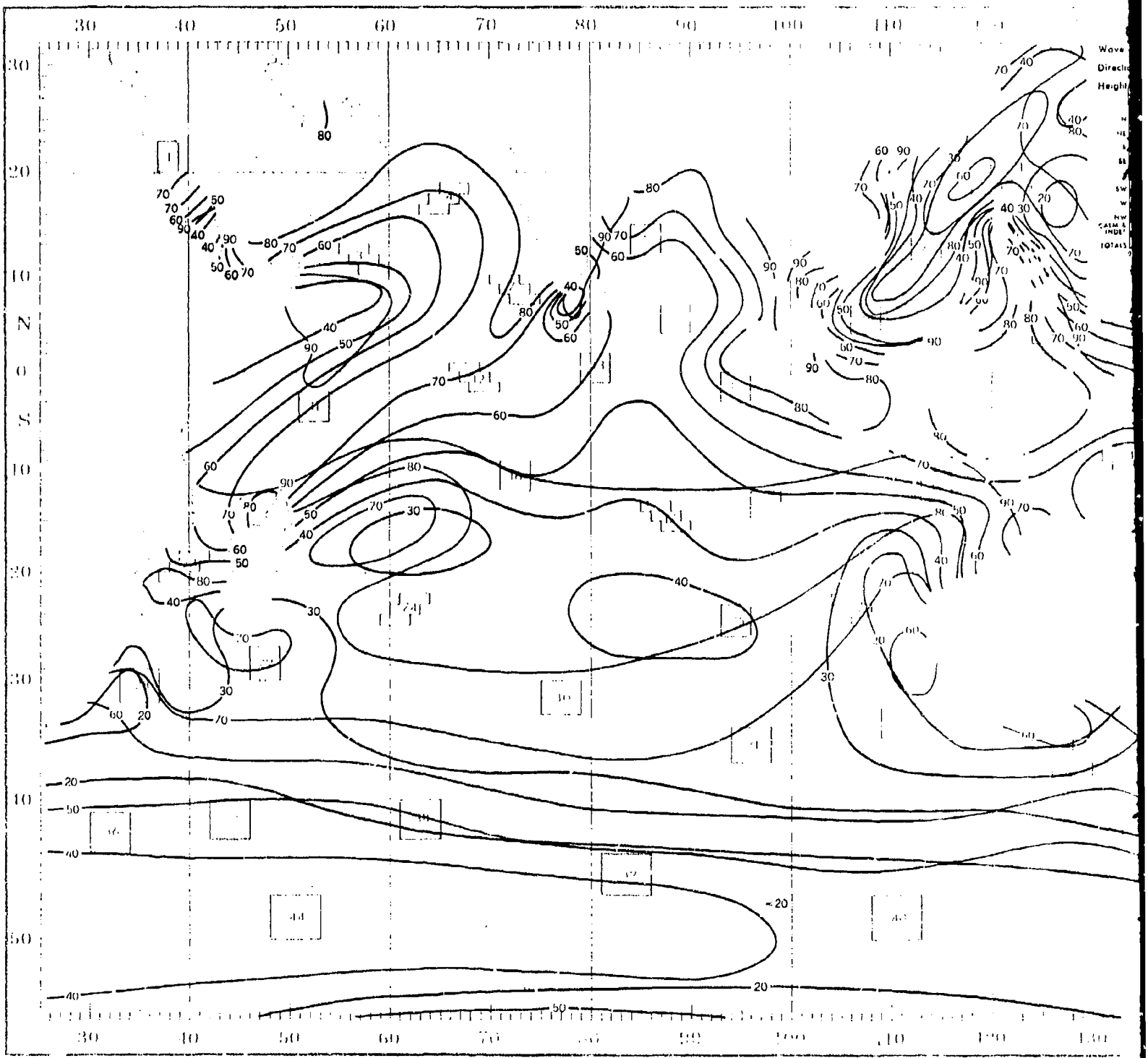
JANUARY

WAVES



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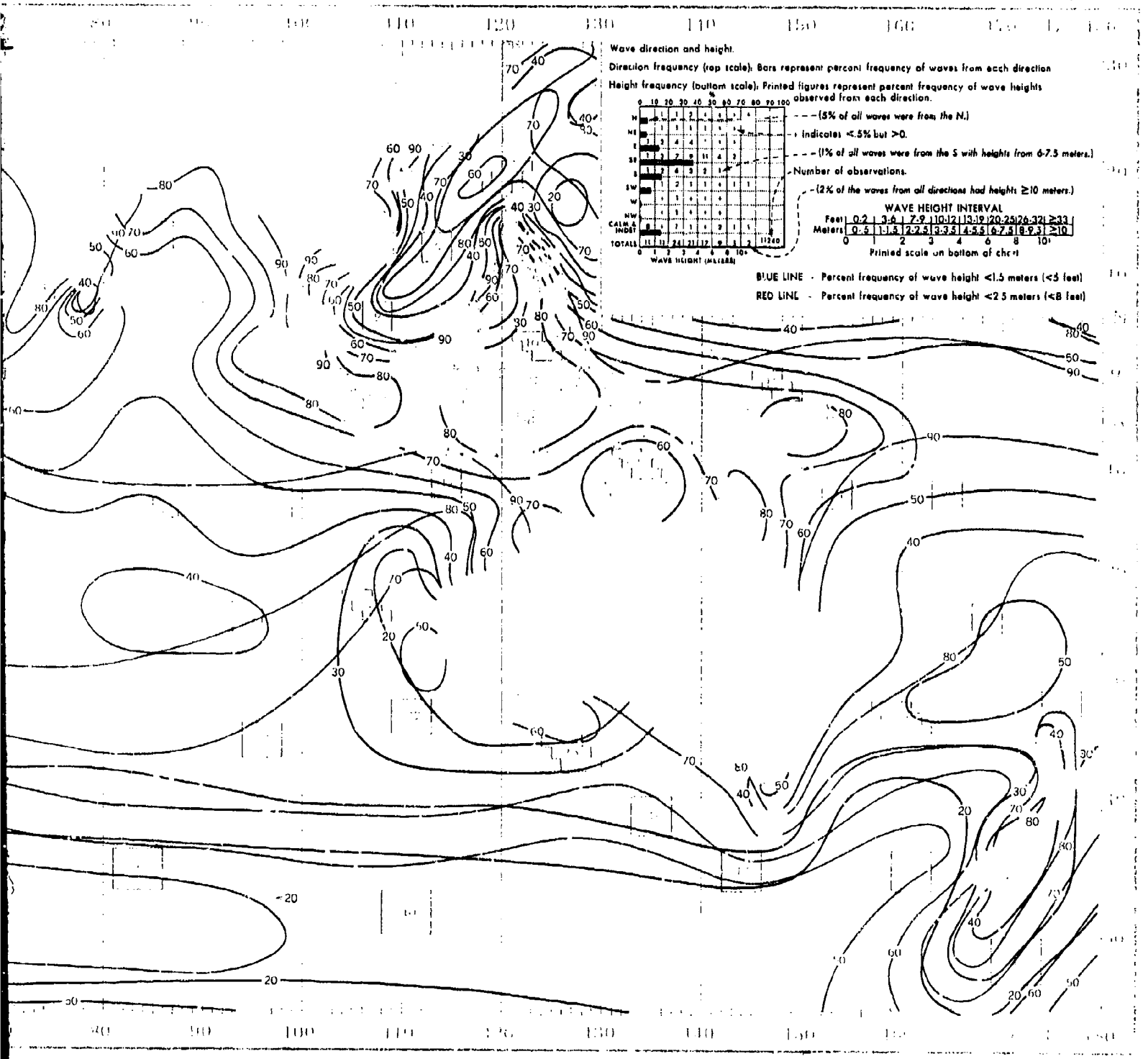

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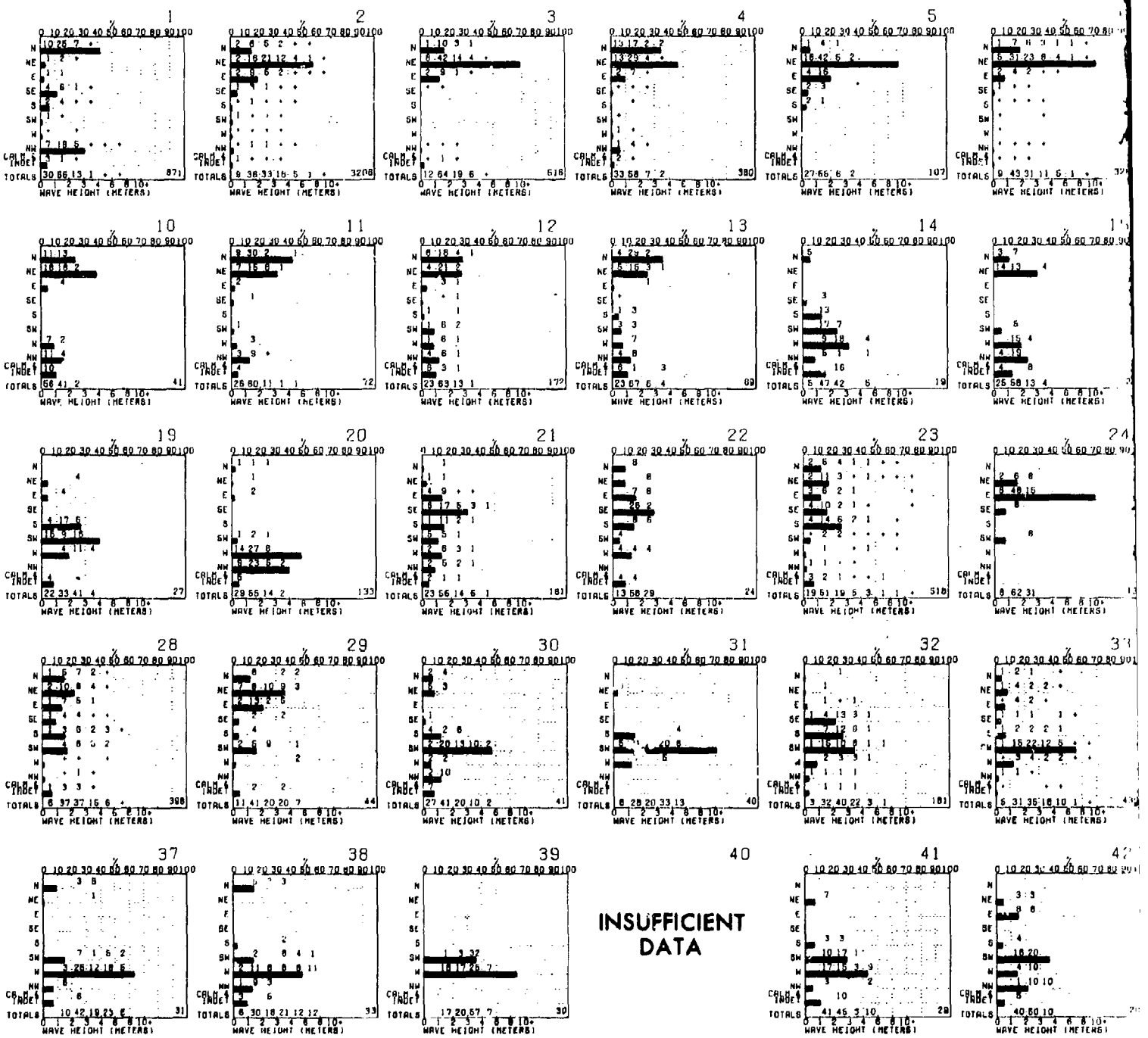

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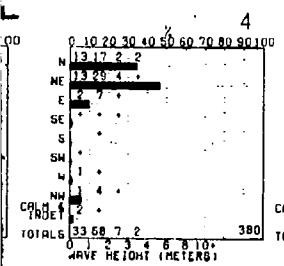
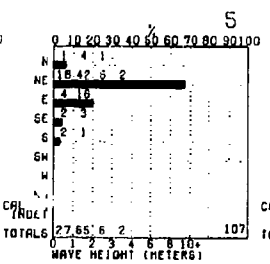
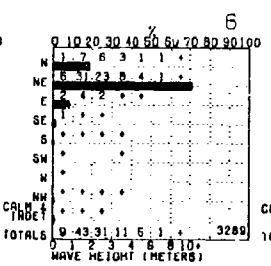
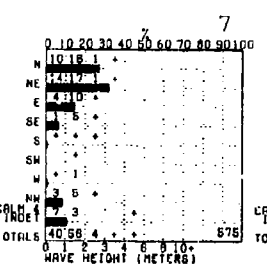
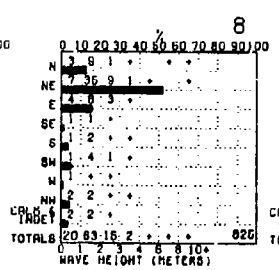
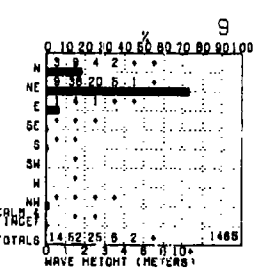


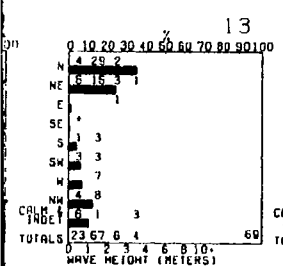


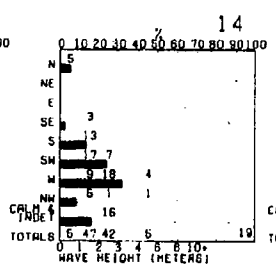


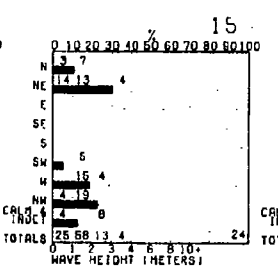


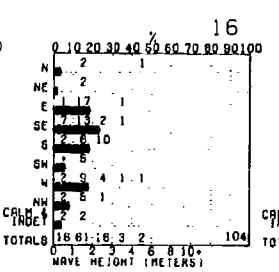


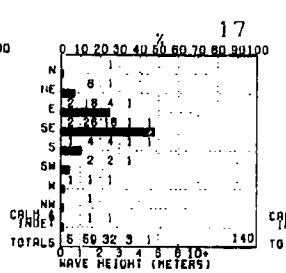


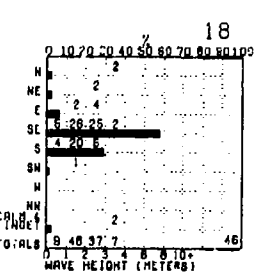


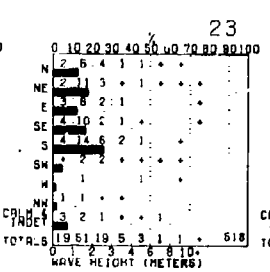


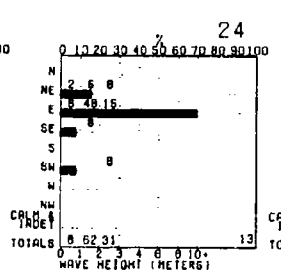


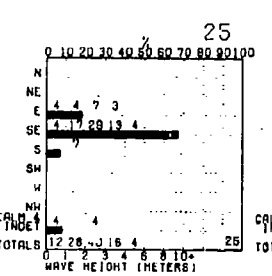


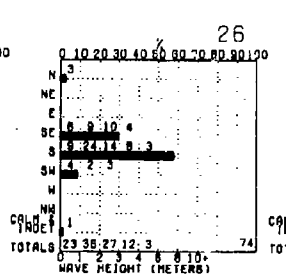


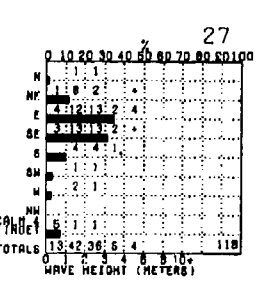


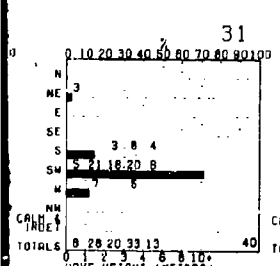


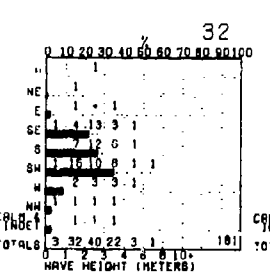


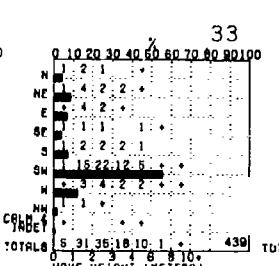


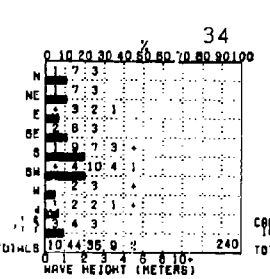


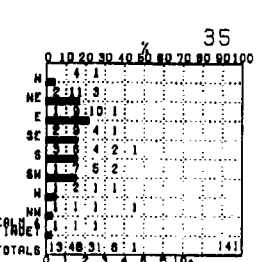










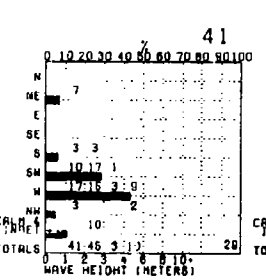


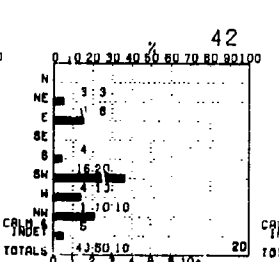
36

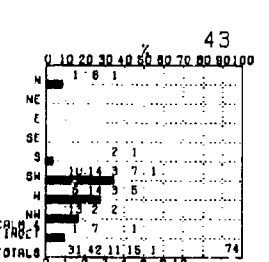
INSUFFICIENT DATA

40

INSUFFICIENT DATA

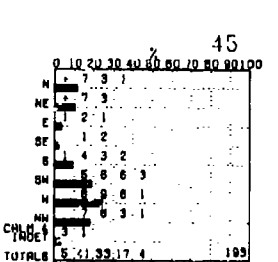






44

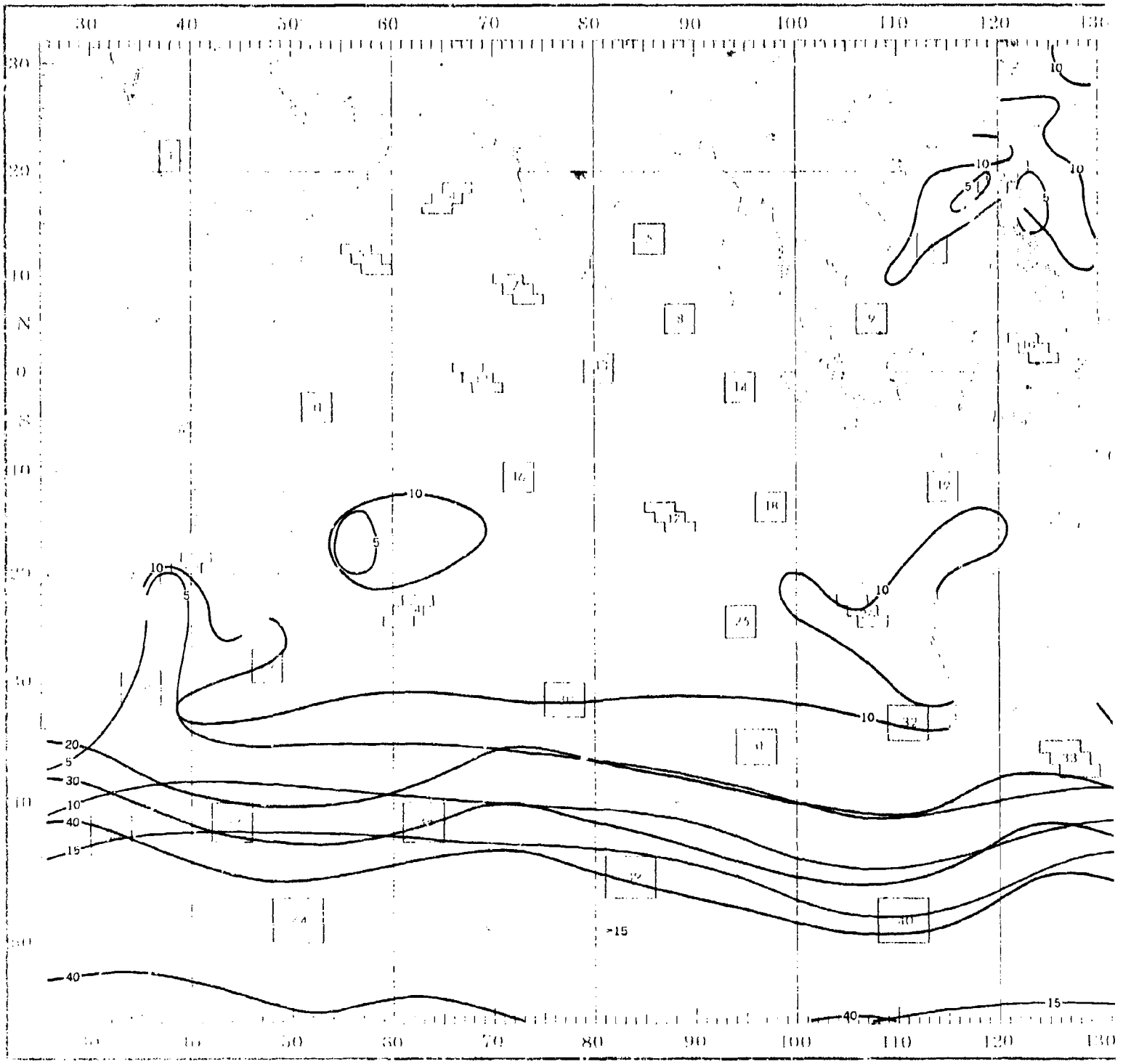
INSUFFICIENT DATA



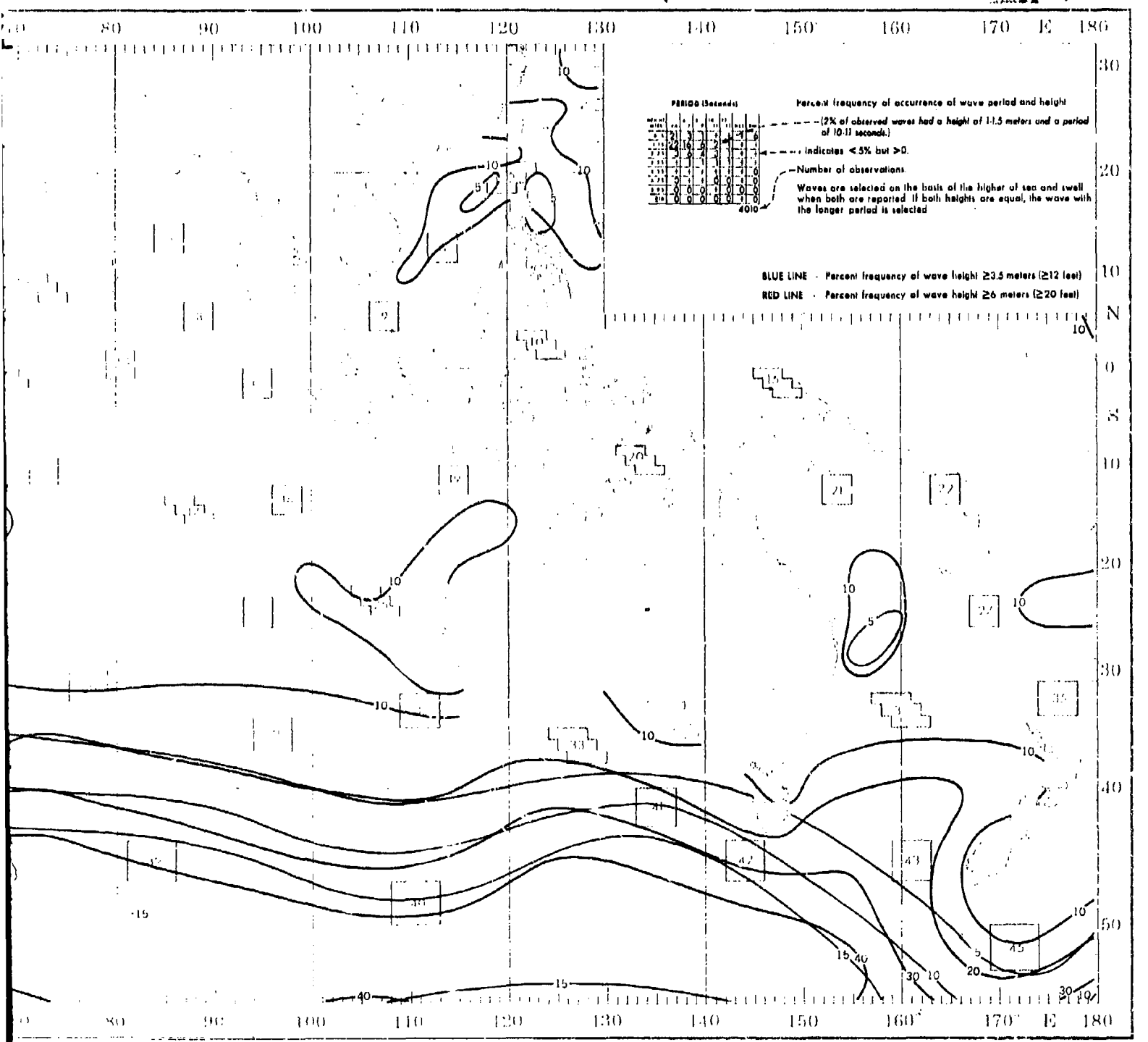
ective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

JANUARY

WAVE



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	24	1	+	+	0	0	8
1-1.5	29	18	4	+	0	0	3
2-2.5	3	5	3	+	0	0	1
3-3.5	+	+	+	+	0	0	0
4-4.5	0	+	0	0	0	0	0
5-5.5	0	+	+	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

913

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	1	+	+	0	0	1
1-1.5	18	14	4	1	+	+	1
2-2.5	4	11	12	6	+	+	+
3-3.5	1	3	5	4	2	+	+
4-4.5	+	1	2	1	1	+	+
5-5.5	0	+	1	+	+	+	0
6-6.5	0	0	+	+	+	+	0
>10	0	0	0	0	0	0	0

3240

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	7	1	+	0	0	0	4
1-1.5	28	23	3	+	+	0	8
2-2.5	4	8	4	+	0	0	2
3-3.5	+	2	2	1	0	0	+
4-4.5	0	0	0	0	0	+	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

621

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	32	1	0	0	0	0	4
1-1.5	36	13	3	+	+	+	2
2-2.5	2	2	2	+	0	0	0
3-3.5	0	1	0	1	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

407

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	28	4	0	0	0	0	3
1-1.5	59	16	6	0	0	1	3
2-2.5	0	1	3	0	0	1	0
3-3.5	0	0	0	2	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

117

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	1	+	+	0		
1-1.5	20	17	4	1	+		
2-2.5	4	11	10	4	1		
3-3.5	1	3	3	3	1		
4-4.5	+	1	2	1	1		
5-5.5	0	0	+	1	+		
6-6.5	0	+	+	+	+		
>10	0	0	0	0	0		

10

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	34	11	2	0	0	0	11
1-1.5	27	7	5	0	0	0	0
2-2.5	2	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

44

11

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	25	0	0	0	0	0	5
1-1.5	32	22	3	0	0	0	0
2-2.5	0	3	7	1	0	0	0
3-3.5	0	1	0	0	0	0	0
4-4.5	1	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

76

12

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	16	1	1	0	0	0	7
1-1.5	19	24	11	1	0	0	7
2-2.5	0	8	5	1	0	0	1
3-3.5	0	0	1	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

177

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	14	1	0	0	0	0	7
1-1.5	20	29	13	1	0	0	3
2-2.5	0	3	3	0	0	0	0
3-3.5	0	1	0	0	0	0	3
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

89

14

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	10	0	0	0	0	0	0
1-1.5	16	16	5	10	0	0	0
2-2.5	0	20	5	0	0	0	16
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	5	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	17	0	0	0	0	0	
1-1.5	33	17	8	0	0	0	
2-2.5	0	4	0	0	0	0	
3-3.5	0	0	4	0	0	0	
4-4.5	0	0	0	0	0	0	
5-5.5	0	0	0	0	0	0	
6-6.5	0	0	0	0	0	0	
>10	0	0	0	0	0	0	

19

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	18	0	0	0	0	0	7
1-1.5	19	7	0	0	0	7	0
2-2.5	7	7	22	0	0	0	4
3-3.5	0	0	4	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

27

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	28	0	0	0	0	0	4
1-1.5	31	14	4	3	0	0	0
2-2.5	4	4	6	1	0	0	0
3-3.5	0	1	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

138

21

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	21	2	1	0	0	0	5
1-1.5	19	21	9	1	1	0	1
2-2.5	5	9	8	1	0	0	1
3-3.5	0	2	3	0	1	0	1
4-4.5	0	0	1	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

173

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	0	0	0	0	0	4
1-1.5	29	21	4	0	0	0	4
2-2.5	0	13	13	0	0	0	4
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

24

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	15	1	+	0	0	0	5
1-1.5	19	15	6	1	1	1	5
2-2.5	4	5	4	1	1	+	2
3-3.5	+	2	1	1	+	+	+
4-4.5	+	1	1	1	0	0	+
5-5.5	0	0	+	0	0	+	1
6-6.5	0	0	0	+	0	+	+
>10	0	0	0	0	0	0	+

528

INSUFFICIEN DATA

28

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	4	0	1	0	0	0	1
1-1.5	14	11	3	2	1	0	5
2-2.5	7	13	8	2	1	1	4
3-3.5	2	6	3	2	1	1	1
4-4.5	1	2	2	1	+	+	1
5-5.5	0	0	+	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

401

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	11	0	0	0	0	0	0
1-1.5	9	26	5	0	0	0	2
2-2.5	7	0	11	0	2	0	0
3-3.5	9	5	2	2	0	0	2
4-4.5	0	2	2	0	0	0	2
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

44

30

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	7	9	0	0	0	0	16
1-1.5	26	9	2	2	0	0	0
2-2.5	2	7	0	2	2	2	2
3-3.5	2	2	2	2	0	0	0
4-4.5	0	0	0	2	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

44

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	0	0	0	0	3
1-1.5	5	8	6	5	0	0	5
2-2.5	0	10	3	0	3	0	5
3-3.5	3	0	5	5	6	6	8
4-4.5	0	0	3	3	3	5	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	1	0	0	0	0	0	2
1-1.5	7	8	9	4	1	0	3
2-2.5	4	8	15	7	1	2	3
3-3.5	1	4	4	7	3	1	2
4-4.5	0	1	1	1	1	0	1
5-5.5	0	0	0	0	1	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

182

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	0	0	0	0	0
1-1.5	10	9	8	2	1		
2-2.5	2	10	14	5	3		
3-3.5	1	4	6	4	2		
4-4.5	+	1	3	2	2		
5-5.5	0	+	+	+	0		
6-6.5	0	0	0	0	0		
>10	0	0	0	0	0		

37

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	6	0	3	0	0	0	0
2-2.5	3	0	13	18	0	0	10
3-3.5	8	0	3	3	3	0	3
4-4.5	0	3	0	0	15	3	3
5-5.5	0	0	6	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

31

38

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	3
1-1.5	24	0	6	0	0	0	0
2-2.5	3	3	8	0	0	0	6
3-3.5	3	3	9	6	0	0	0
4-4.5	0	0	3	9	0	0	0
5-5.5	0	0	0	9	3	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

33

39

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	17	0	0	0	0	0
2-2.5	0	7	13	0	0	0	0
3-3.5	0	0	13	10	17	7	10
4-4.5	0	0	0	0	3	3	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

30

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	10	10	21	0	0	0	0
2-2.5	0	0	21	7	7	0	10
3-3.5	0	0	0	3	0	0	0
4-4.5	0	0	7	0	3	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	5	15	5	10	0	0	
2-2.5	5	10	5	5	15	10	
3-3.5	0	0	0	0	10	0	
4-4.5	0	0	0	0	0	0	
5-5.5	0	0	0	0	0	0	
6-6.5	0	0	0	0	0	0	
>10	0	0	0	0	0	0	

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adj

JANUARY

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	32	1	0	0	0	0	4
1.5-3.0	36	13	3	+	+	+	2
3.0-4.5	2	2	2	+	0	0	0
4.5-6.0	0	1	0	1	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

407

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	26	4	0	0	0	0	3
1.5-3.0	36	15	6	0	0	1	3
3.0-4.5	0	1	3	0	0	1	0
4.5-6.0	0	0	0	2	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

117

6

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	8	1	+	+	0	0	1
1.5-3.0	20	17	4	1	+	+	+
3.0-4.5	4	11	10	4	1	+	1
4.5-6.0	1	3	3	3	1	+	+
6.0-7.5	+	1	2	1	1	+	+
7.5-9.0	0	0	+	1	+	+	0
9.0-10.5	0	+	+	+	+	+	0
>10.5	0	0	0	0	0	0	0

3323

7

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	25	6	+	+	0	0	15
1.5-3.0	24	16	4	1	0	0	6
3.0-4.5	+	1	1	1	0	0	+
4.5-6.0	+	2	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

643

8

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	19	1	+	1	0	0	3
1.5-3.0	28	21	6	2	1	+	3
3.0-4.5	3	5	3	1	+	+	1
4.5-6.0	0	0	1	+	0	+	+
6.0-7.5	0	0	0	0	+	0	0
7.5-9.0	0	0	0	0	0	+	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

888

9

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	13	1	+	+	0	0	1
1.5-3.0	24	20	4	1	+	0	3
3.0-4.5	3	9	8	2	1	+	1
4.5-6.0	4	2	2	1	1	+	+
6.0-7.5	0	+	+	1	+	+	0
7.5-9.0	0	0	+	0	0	+	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

1489

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	14	1	0	0	0	0	7
1.5-3.0	20	29	13	1	0	0	3
3.0-4.5	0	3	3	0	0	0	0
4.5-6.0	0	1	0	0	0	0	3
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

89

14

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	10	0	0	0	0	0	0
1.5-3.0	16	16	6	10	0	0	0
3.0-4.5	0	20	6	0	0	0	16
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	6	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

27

15

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	17	0	0	0	0	0	8
1.5-3.0	33	17	8	0	0	0	0
3.0-4.5	0	4	0	0	0	0	8
4.5-6.0	0	0	4	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

24

16

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	13	2	0	0	0	0	3
1.5-3.0	17	25	13	1	1	0	2
3.0-4.5	0	5	8	3	1	2	0
4.5-6.0	0	2	0	0	0	1	0
6.0-7.5	0	0	0	0	2	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

106

17

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	4	0	0	0	0	0	3
1.5-3.0	18	23	8	4	1	0	6
3.0-4.5	1	10	12	6	2	0	1
4.5-6.0	0	1	1	1	0	0	0
6.0-7.5	0	0	1	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

142

18

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	4	0	0	0	0	0	6
1.5-3.0	11	17	17	2	0	0	0
3.0-4.5	4	21	4	2	2	0	2
4.5-6.0	0	2	0	2	0	0	2
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

47

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	8	0	0	0	0	0	4
1.5-3.0	29	21	4	0	0	0	4
3.0-4.5	0	13	13	0	0	0	4
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	9	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

24

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	16	1	+	0	0	0	6
1.5-3.0	19	16	6	1	1	1	5
3.0-4.5	4	5	4	1	1	+	2
4.5-6.0	+	2	1	1	+	+	+
6.0-7.5	+	1	1	1	0	0	+
7.5-9.0	0	0	+	0	0	+	1
9.0-10.5	0	0	0	+	0	+	+
>10.5	0	0	0	0	0	0	0

58

24

INSUFFICIENT DATA

25

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	7	0	0	0	0	0	11
1.5-3.0	4	19	4	0	0	0	0
3.0-4.5	7	19	7	0	0	0	4
4.5-6.0	0	4	0	7	4	0	0
6.0-7.5	0	4	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

27

26

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	23	0	0	0	0	0	1
1.5-3.0	16	13	7	0	0	0	0
3.0-4.5	0	13	11	3	0	0	0
4.5-6.0	0	3	1	8	0	0	0
6.0-7.5	0	0	0	0	3	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

75

27

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	8	0	0	0	0	0	8
1.5-3.0	18	16	4	2	0	1	0
3.0-4.5	8	9	13	5	0	3	1
4.5-6.0	0	1	3	1	0	1	0
6.0-7.5	0	3	0	2	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

119

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	5	0	0	0	0	0	3
1.5-3.0	6	8	6	6	0	0	6
3.0-4.5	0	10	3	0	3	0	6
4.5-6.0	1	0	5	6	8	6	8
6.0-7.5	0	0	3	3	3	6	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

40

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	1	0	0	0	0	0	2
1.5-3.0	7	8	9	4	1	0	1
3.0-4.5	4	8	15	7	1	2	1
4.5-6.0	1	4	4	7	3	1	2
6.0-7.5	0	0	1	1	1	0	1
7.5-9.0	0	0	0	0	1	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

182

33

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	5	0	0	0	0	0	1
1.5-3.0	10	9	6	2	1	+	2
3.0-4.5	2	10	14	5	3	+	0
4.5-6.0	1	4	5	4	2	2	+
6.0-7.5	0	+	1	3	2	1	0
7.5-9.0	0	+	+	+	0	0	0
9.0-10.5	0	0	0	0	0	0	+
>10.5	0	0	0	0	0	0	0

442

34

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	10	+	0	0	0	0	4
1.5-3.0	18	16	4	1	1	0	2
3.0-4.5	6	12	9	2	2	+	2
4.5-6.0	1	2	4	2	+	0	0
6.0-7.5	0	+	+	+	1	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

261

35

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	17	1	0	0	0	0	2
1.5-3.0	14	13	4	3	2	0	9
3.0-4.5	8	9	6	1	3	1	4
4.5-6.0	0	1	3	1	0	1	0
6.0-7.5	0	0	1	0	0	1	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

151

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1.5-3.0	10	10	21	0	0	0	0
3.0-4.5	0	0	21	7	7	0	10
4.5-6.0	0	0	3	0	0	0	0
6.0-7.5	0	0	7	0	3	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

29

42

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1.5-3.0	6	15	6	10	0	0	6
3.0-4.5	5	10	5	6	15	10	0
4.5-6.0	0	0	0	0	10	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

20

43

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1.5-3.0	4	7	7	4	0	0	9
3.0-4.5	4	14	15	1	0	1	7
4.5-6.0	0	1	4	5	0	0	0
6.0-7.5	0	0	0	1	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

74

44

INSUFFICIENT DATA

45

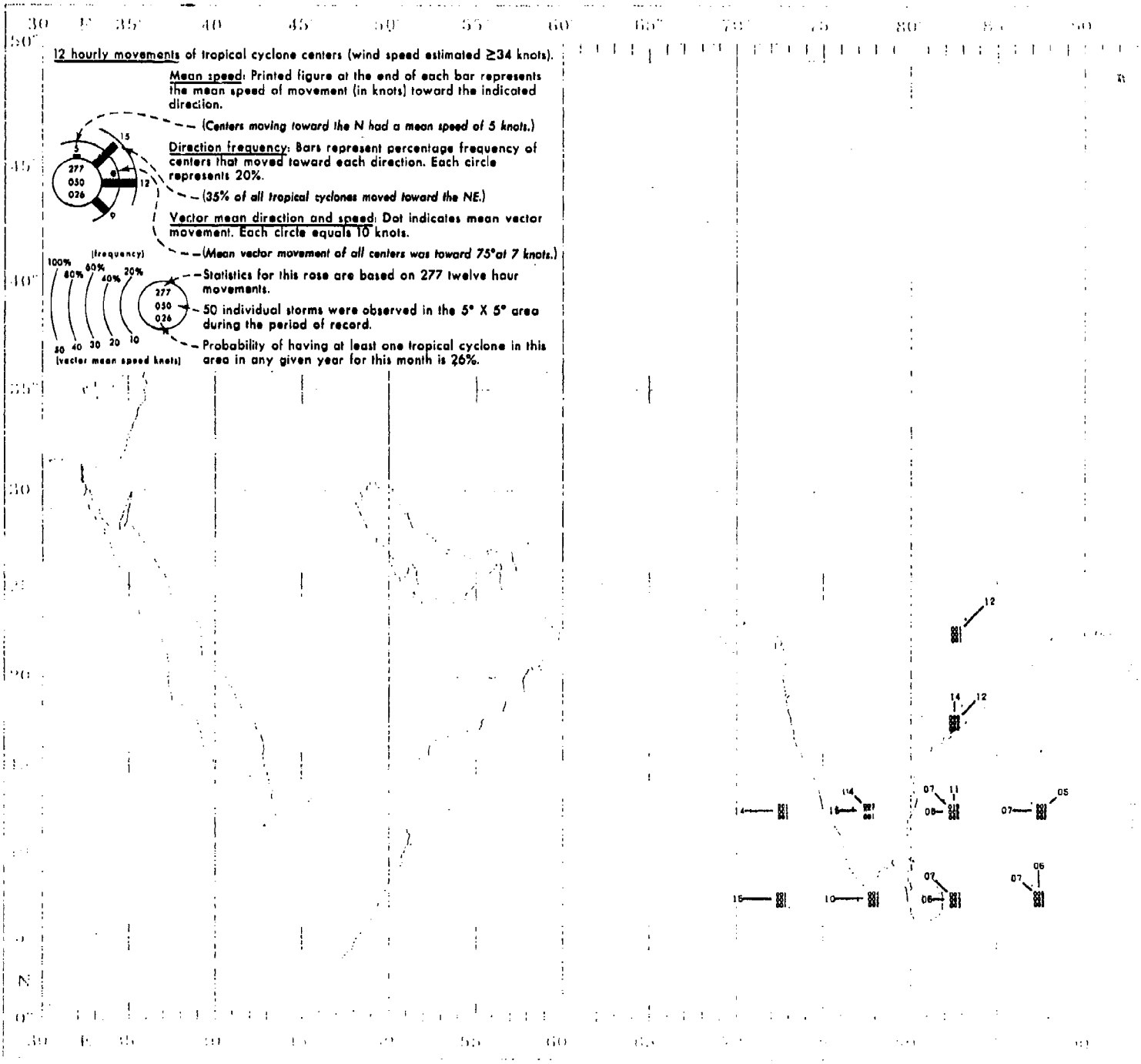
PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	2	0	0	0	0	0	3
1.5-3.0	21	14	5	1	1	0	1
3.0-4.5	5	12	8	8	0	0	0
4.5-6.0	2	5	4	4	1	1	0
6.0-7.5	0	2	2	1	0	0	0
7.5-9.0	0	0	0	0	0	0	0
9.0-10.5	0	0	0	0	0	0	0
>10.5	0	0	0	0	0	0	0

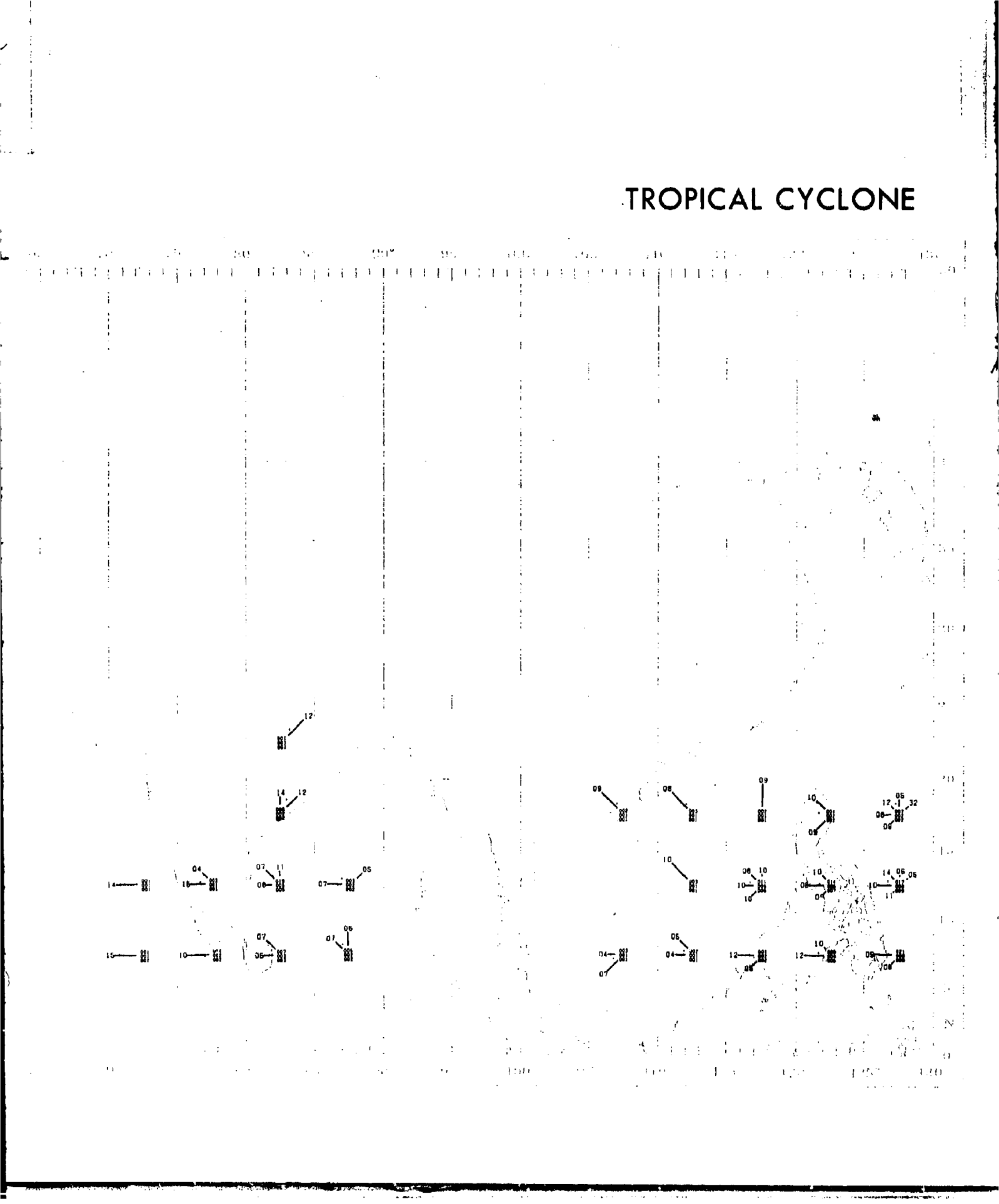
193

bjective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

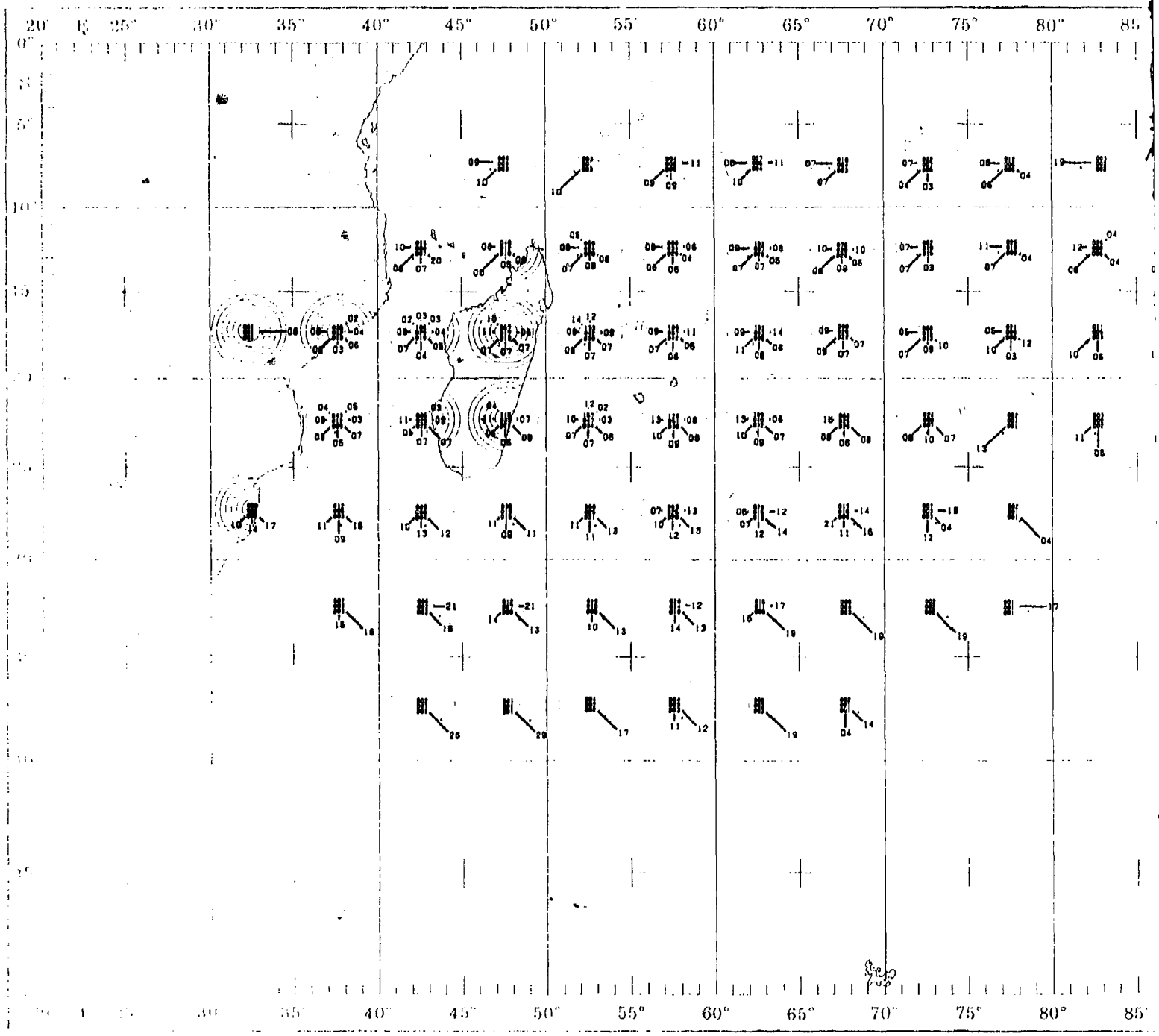
JANUARY


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.
277
050
026
(frequency)
100%
80%
60%
40%
20%
50
40
30
20
10
(vector mean speed knots)

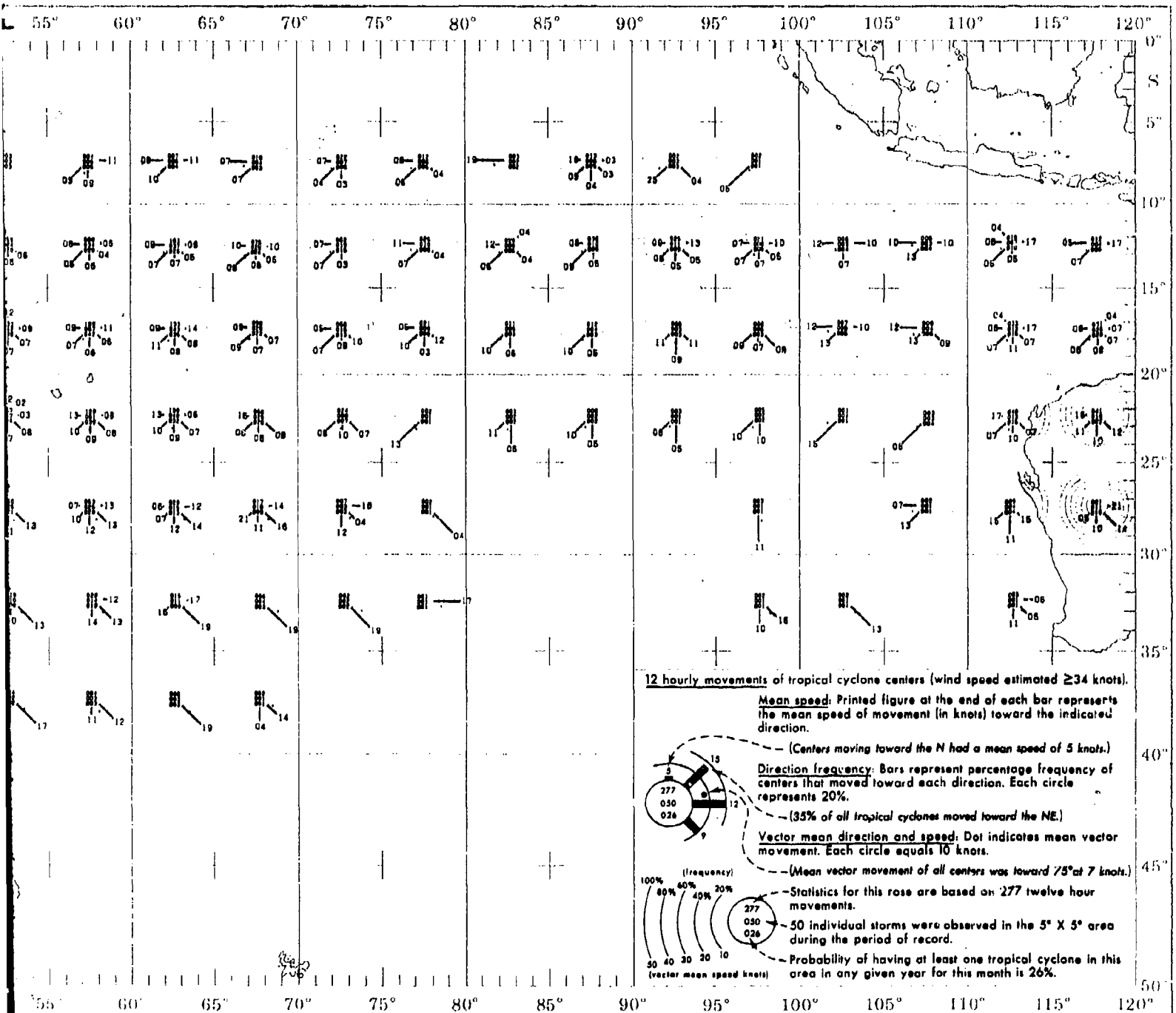
TROPICAL CYCLONE



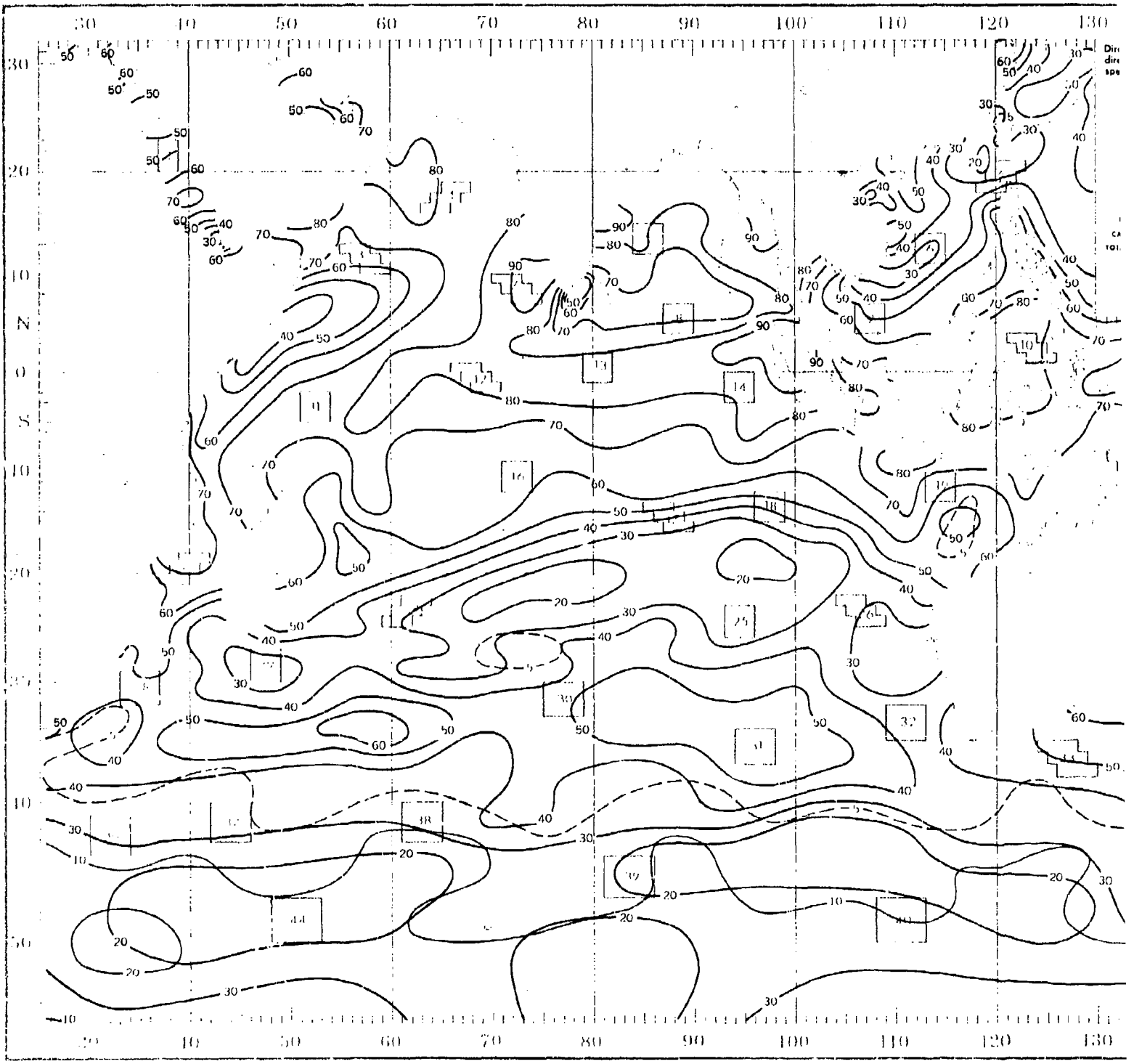
TROPICAL CYCLONE



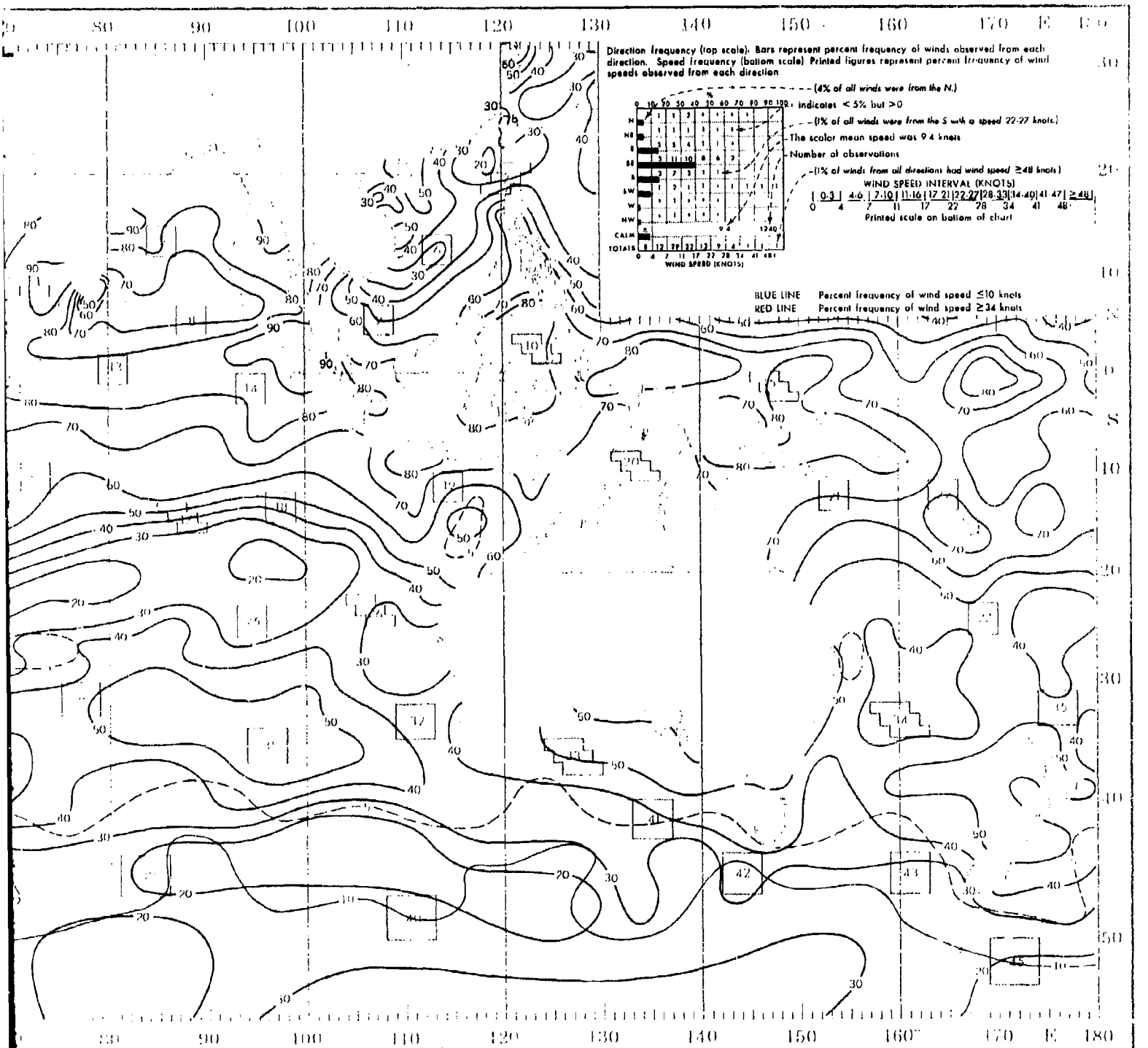
JANUARY


55° 60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0° 5° 10° 15° 20° 25° 30° 35° 40° 45° 50°
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
277
030
026
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.
(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)

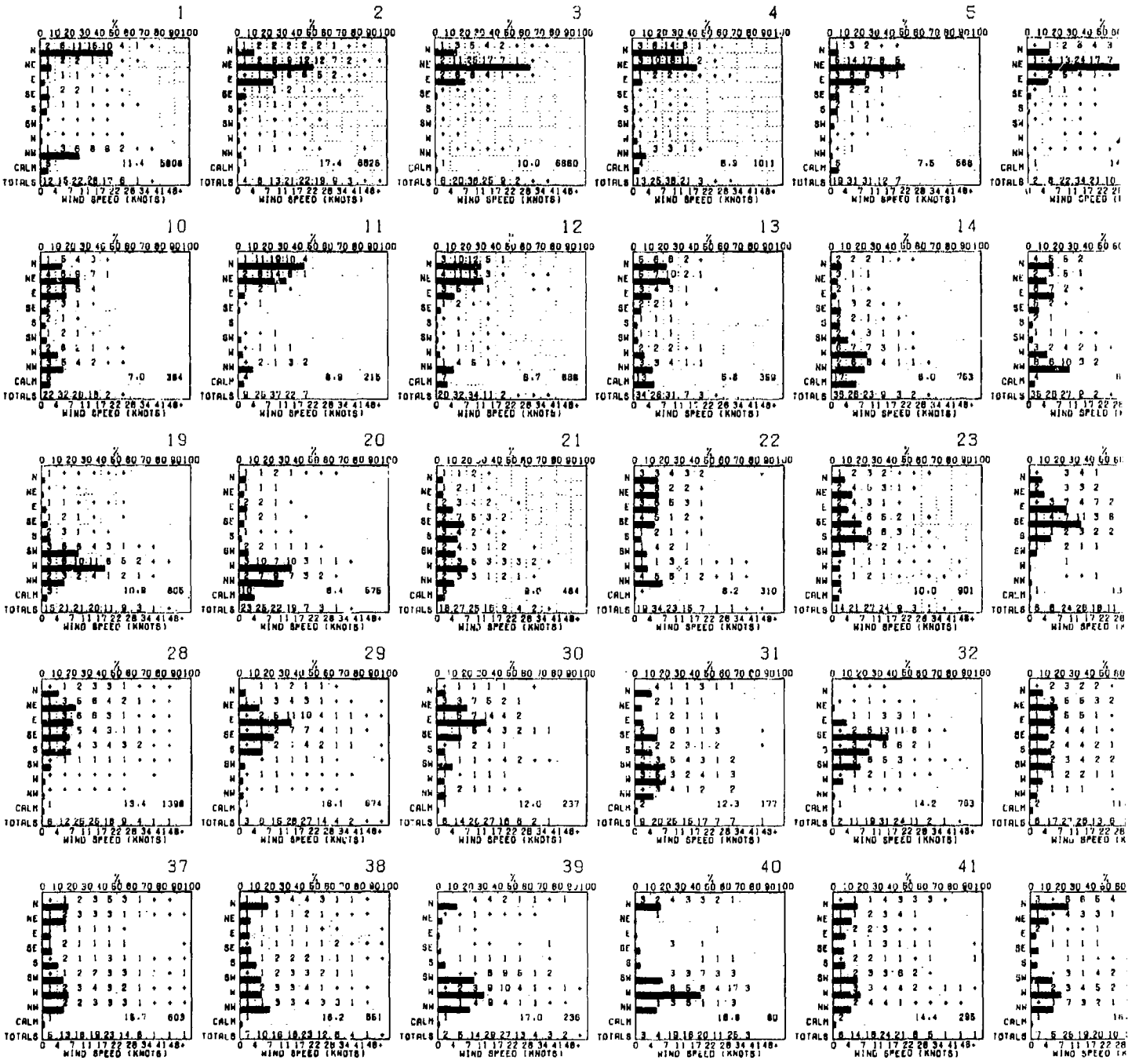
FEBRUARY



SURFACE WINDS



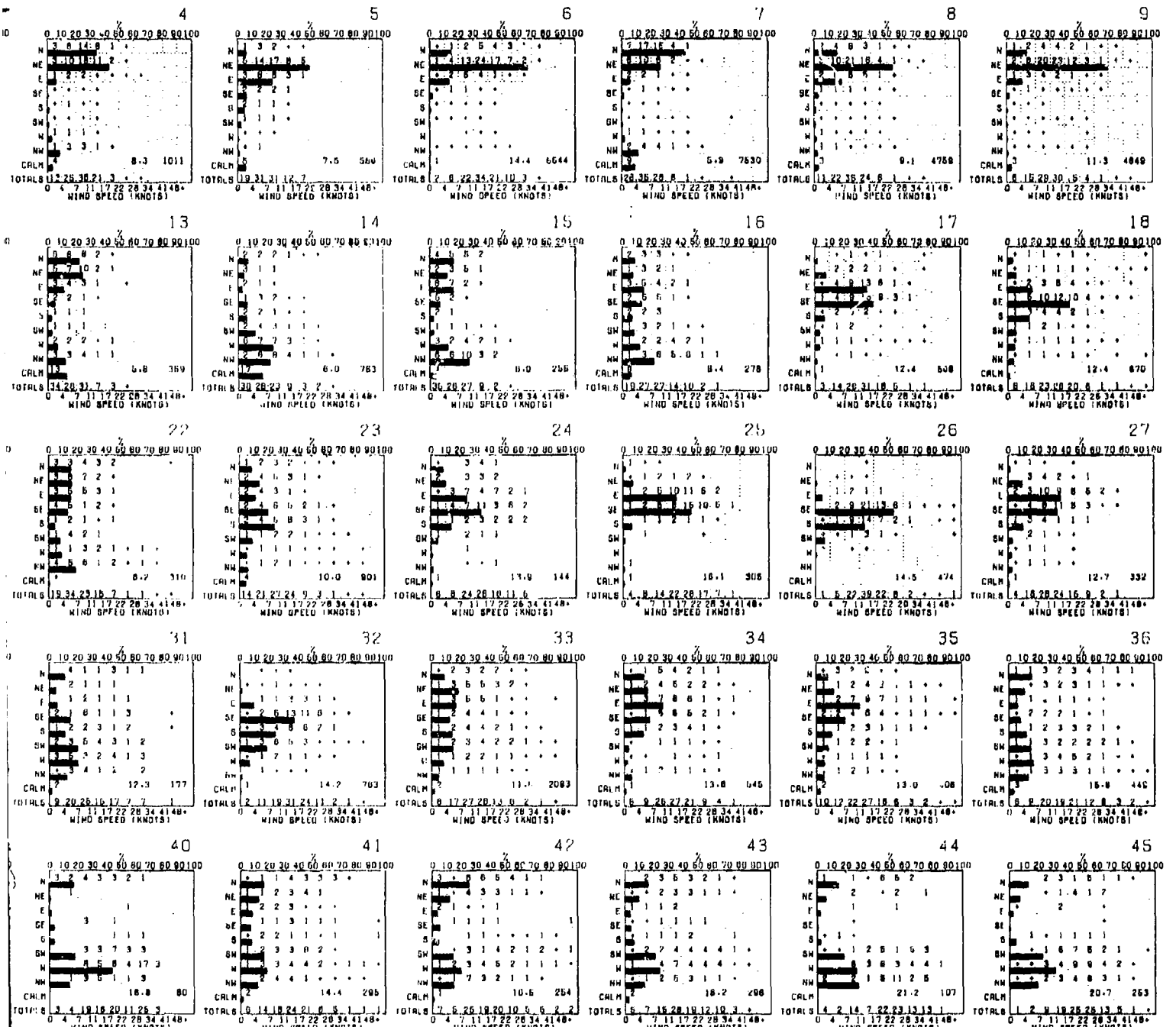
WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas wit
The isopleth analyses (opposite page) are based on all available data subjectively c

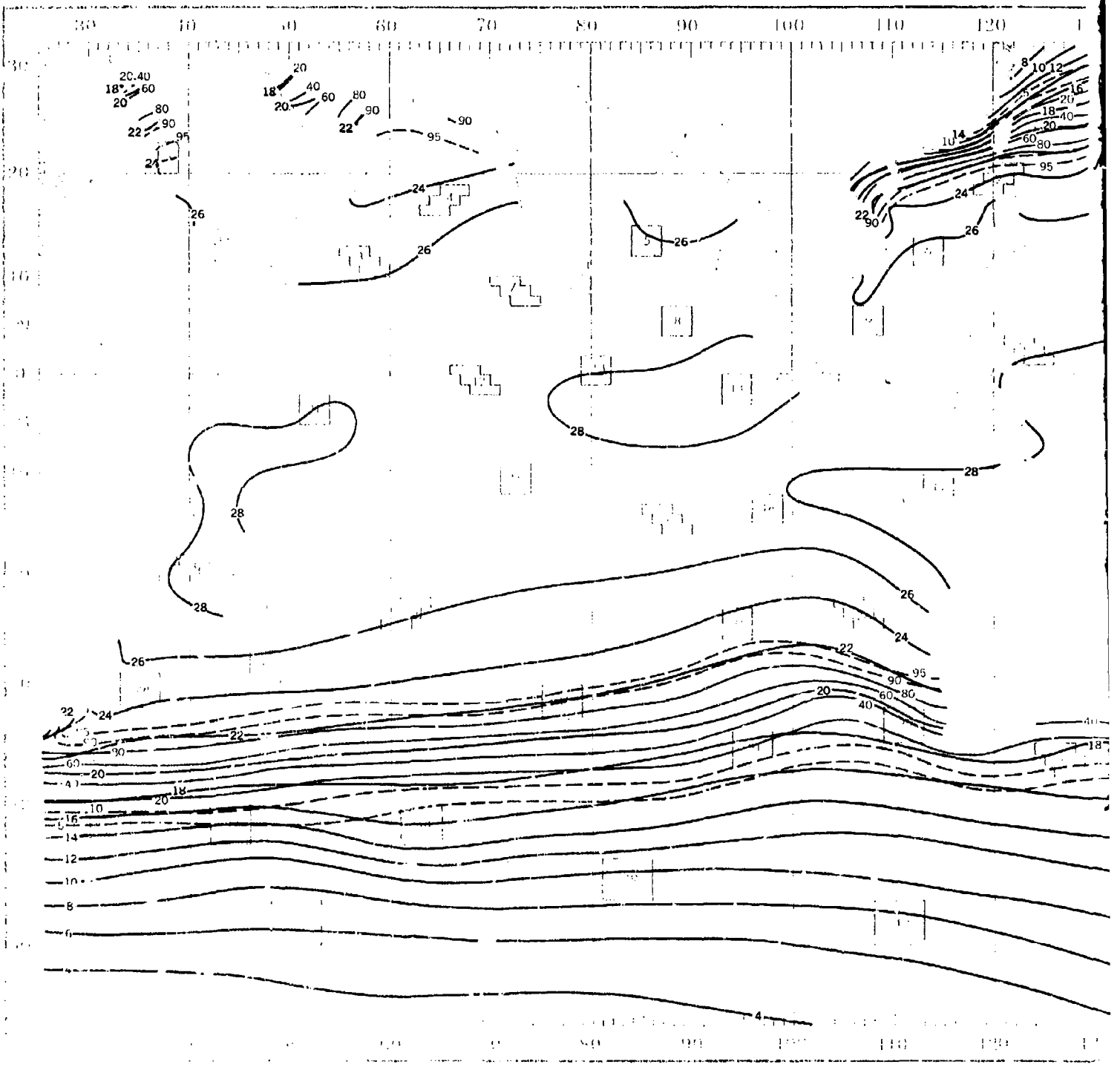
ED

FEBRUARY

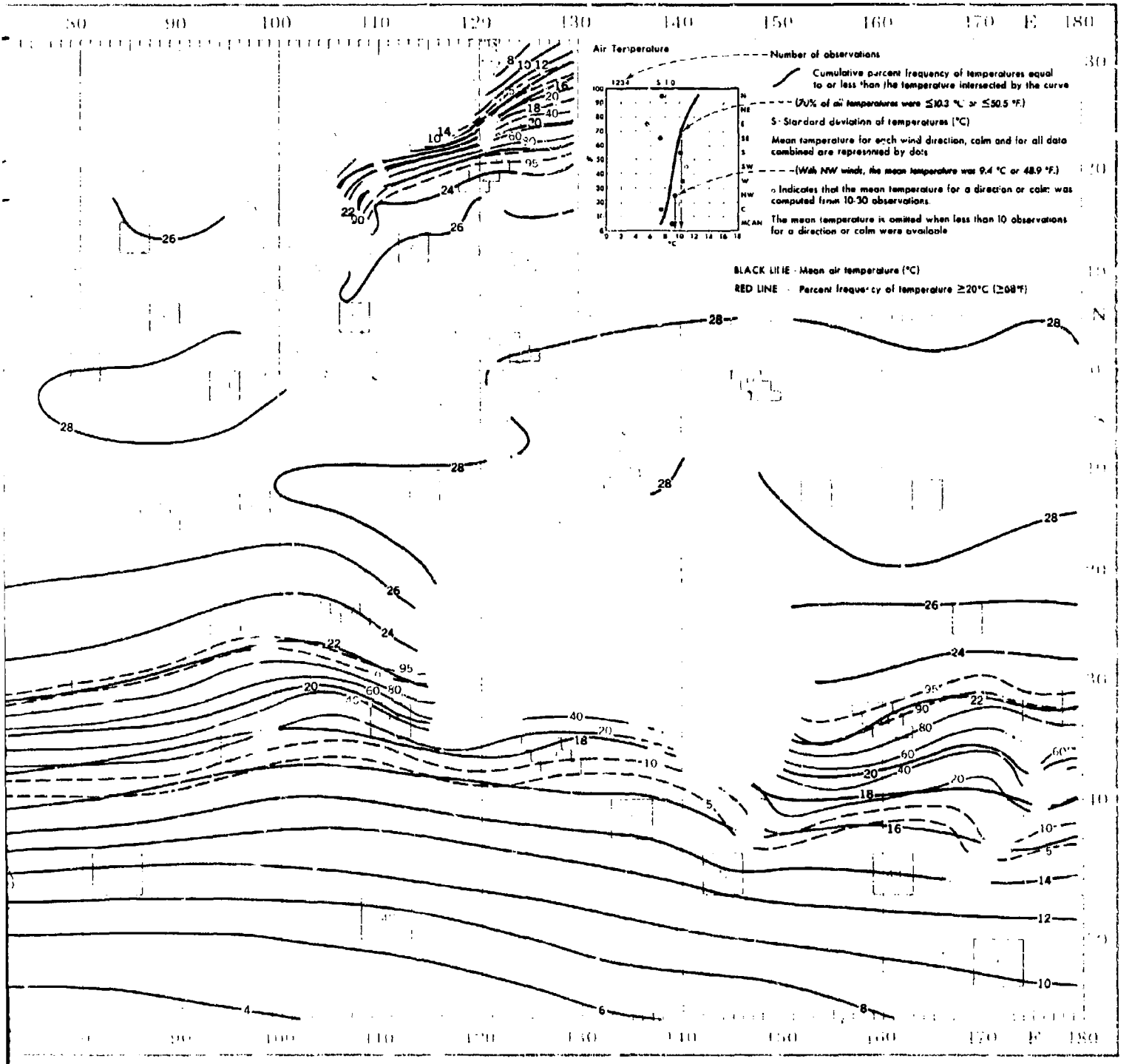


ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

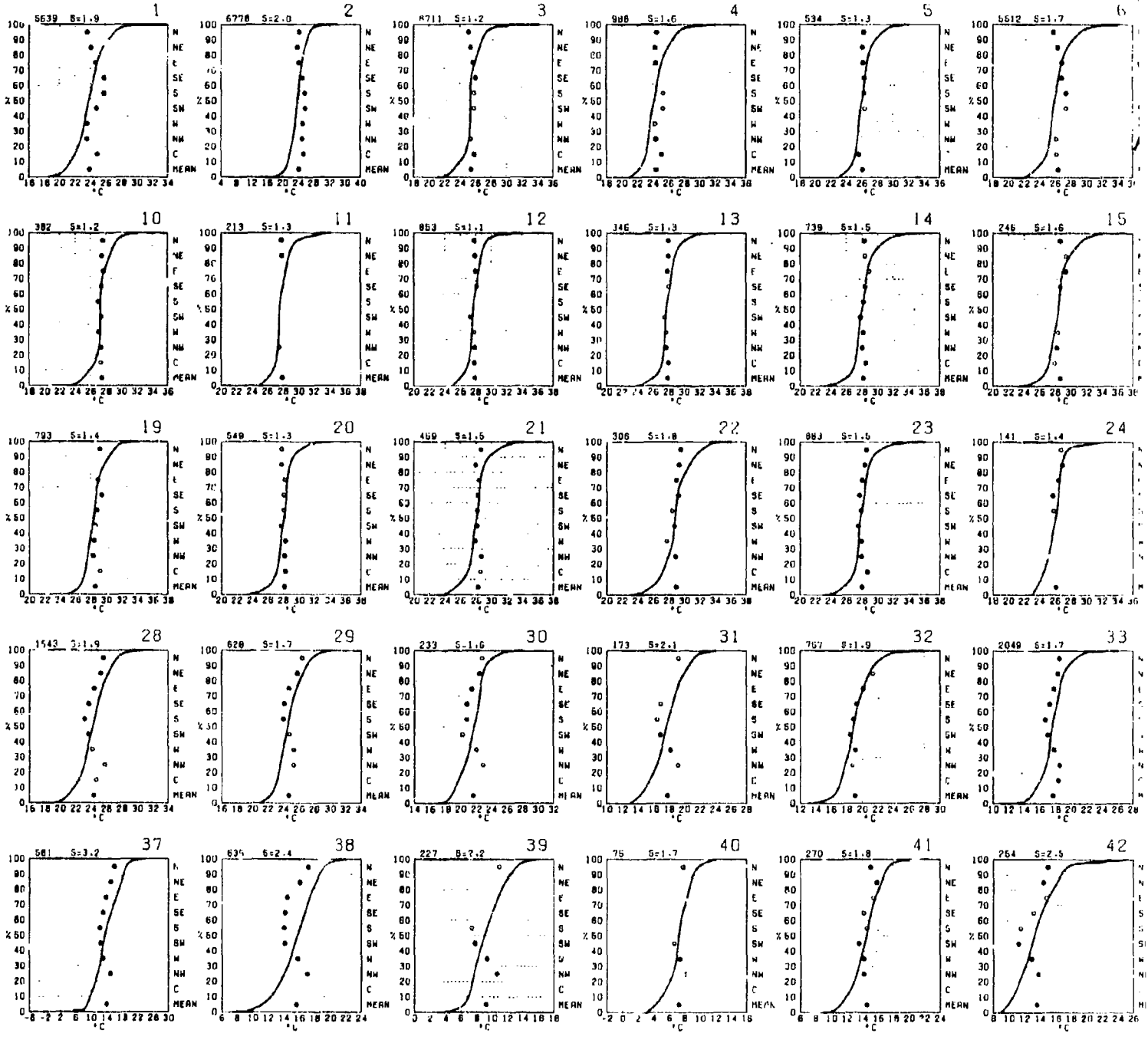
FEBRUARY



SURFACE AIR TEMPERATURE

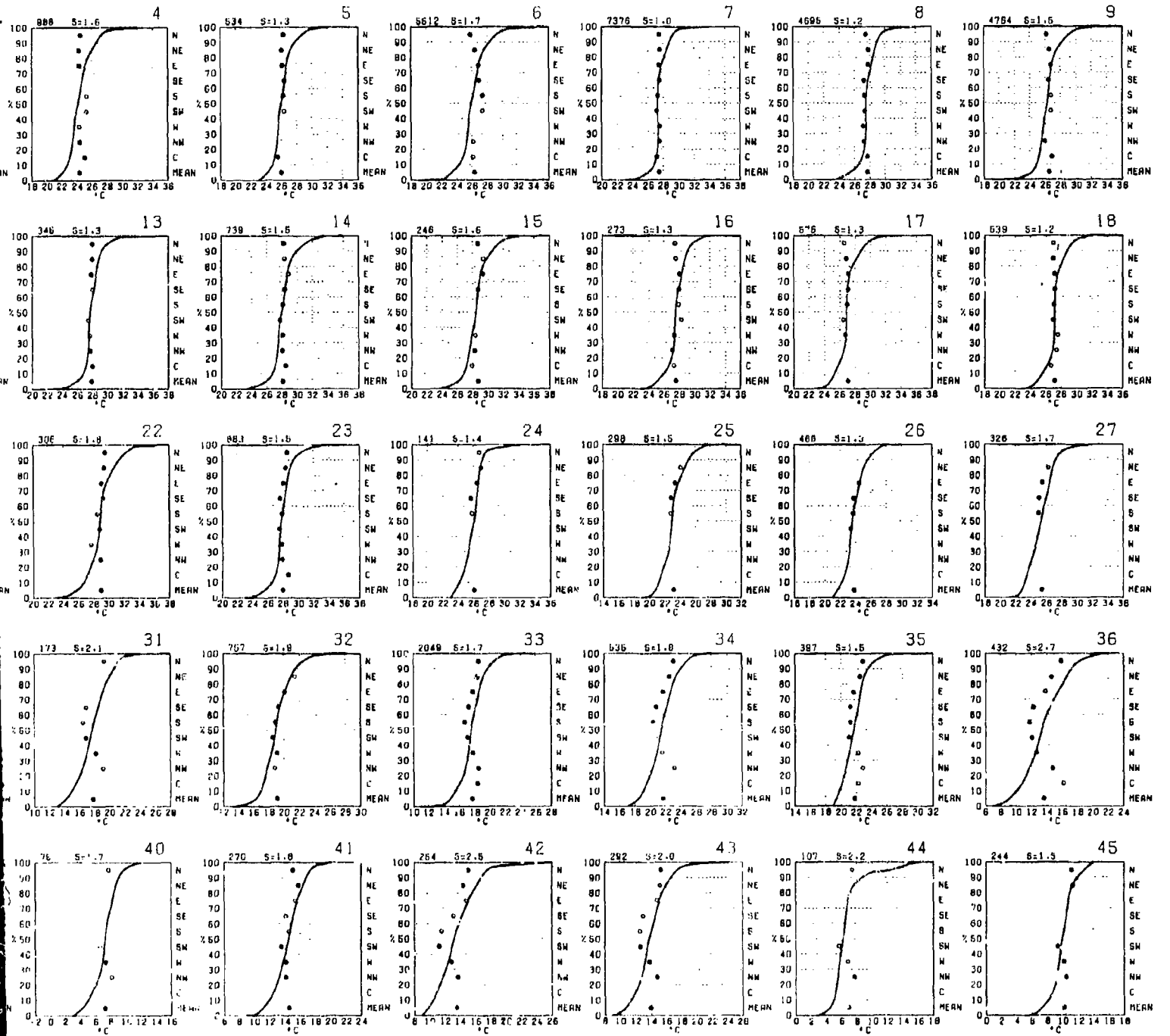


SURFACE AIR TEMPERATURE



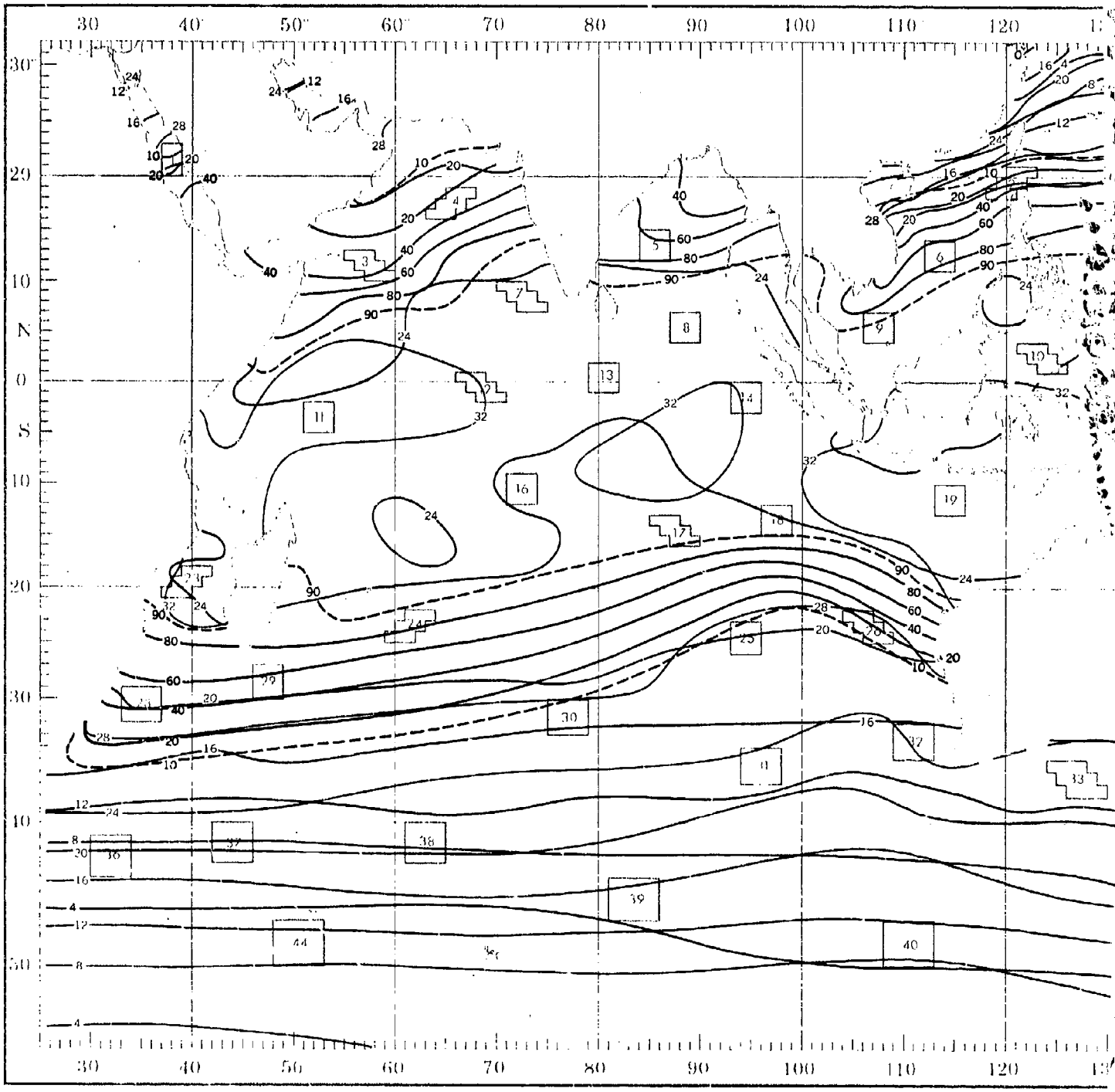
Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on ...available data subjectively adjust

FEBRUARY

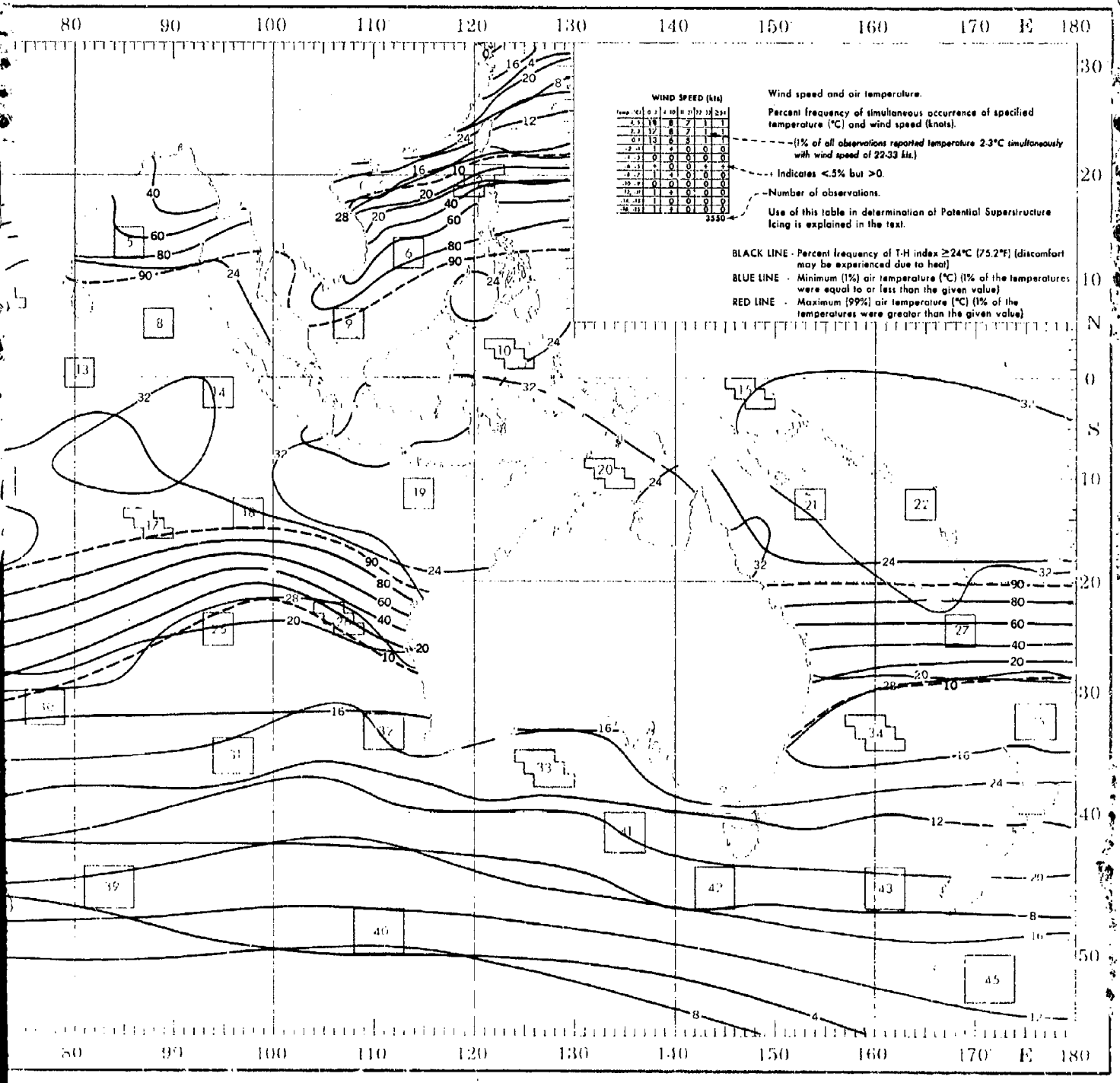


jective compi tion of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

FEBRUARY TEMPERATURE



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	+	+	+	+	0
28.29	1	1	1	+	0
26.27	4	8	5	+	0
24.26	6	16	16	2	+
22.23	2	9	17	4	+
20.21	+	2	4	1	+
18.19	0	+	+	+	+
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

5648

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	+	+	+	+
28.29	+	2	2	+	0
26.27	2	7	8	2	+
24.25	2	9	18	10	1
22.23	+	3	11	12	1
20.21	+	+	3	4	1
18.19	0	+	+	+	+
16.17	0	+	+	+	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

6784

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	+	+	+	0	0
28.29	1	3	1	+	0
26.27	2	24	12	1	0
24.25	3	30	20	1	0
22.23	+	1	1	+	+
20.21	0	+	+	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

8716

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	+	+	+	0	0
28.29	1	2	1	0	0
26.27	3	12	5	+	0
24.25	5	31	11	+	0
22.23	4	17	7	0	0
20.21	0	+	1	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

992

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	2	11	1	0	0
26.27	9	36	10	0	0
24.25	8	16	6	0	0
22.23	0	1	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

536

WIND SPEED (KTS)

TEMP (°C)	-	4-10	11-21	22-33
32.33	0	+	+	0
30.31	+	1	2	+
28.29	+	6	9	2
26.27	1	15	28	6
24.25	1	8	14	4
22.23	+	+	1	1
20.21	0	0	+	+
18.19	0	0	0	0
16.17	0	0	0	0
14.15	0	0	0	0
12.13	0	0	0	0

5

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	1	3	2	0	0
28.29	10	21	8	0	0
26.27	11	32	9	0	0
24.25	1	3	0	0	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

384

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	3	+	0	0
30.31	+	3	1	0	0
28.29	5	31	15	0	0
26.27	3	24	12	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

213

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	4	+	0	0
28.29	11	40	8	0	+
26.27	7	21	4	+	0
24.25	+	2	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

859

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	6	3	1	0	0
28.29	19	33	5	+	0
26.27	9	19	3	0	0
24.25	1	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

348

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	1	+	0	0
30.31	7	6	1	0	0
28.29	22	27	6	1	0
26.27	6	13	6	1	0
24.25	1	2	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

739

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
34.36	0	+	0	0
32.33	3	2	+	0
30.31	9	10	1	0
28.29	16	30	6	+
26.27	6	10	4	0
24.25	+	2	+	0
22.23	0	0	0	0
20.21	0	0	0	0
18.19	0	0	0	0
16.17	0	0	0	0
14.15	0	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	2	1	1	0	0
30.31	5	8	5	1	+
28.29	6	24	18	6	+
26.27	2	7	7	4	+
24.25	0	+	1	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

794

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	3	7	2	+	0
28.29	17	26	16	3	0
26.27	3	11	6	1	+
24.25	+	2	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

660

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	0	0	0	0
32.33	1	1	+	0	0
30.31	3	7	3	0	0
28.29	12	32	13	4	+
26.27	3	10	6	1	0
24.25	+	1	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

472

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	1	0	0	0
32.33	2	7	+	0	0
30.31	6	13	5	0	0
28.29	10	26	11	1	+
26.27	1	9	4	1	0
24.25	0	1	2	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

306

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	1	+	0	0
30.31	3	5	2	0	0
28.29	8	25	17	2	+
26.27	4	16	12	2	+
24.25	+	1	1	+	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

909

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
30.31	1	0	0	0
28.29	1	5	10	2
26.27	3	19	21	8
24.25	1	7	16	7
22.23	0	1	0	0
20.21	0	0	0	0
18.18	0	0	0	0
18.17	0	0	0	0
14.18	0	0	0	0
12.13	0	0	0	0
10.11	0	0	0	0

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	+	2	1	+	0
26.27	1	10	10	3	+
24.25	2	15	16	6	+
22.23	1	9	12	4	+
20.21	+	2	2	1	+
18.19	0	0	+	0	0
16.17	0	0	0	0	0
14.18	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1551

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	+	0	0
28.29	+	2	4	0	0
26.27	1	6	13	3	+
24.25	1	9	28	8	2
22.23	+	4	10	6	1
20.21	0	+	1	+	0
18.18	0	0	0	0	0
18.17	0	0	0	0	0
14.18	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

829

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	2	5	3	+	0
22.23	5	16	21	3	+
20.21	1	15	14	2	+
18.18	0	3	5	1	+
18.17	0	0	0	1	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

233

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	2	1	2	0	0
20.21	2	8	4	3	0
18.18	3	16	13	1	0
18.17	3	15	8	6	1
14.16	0	4	4	4	0
12.13	0	1	1	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

174

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	0	+	0	0
24.25	+	1	1	0	0
22.23	+	2	4	1	0
20.21	+	9	16	3	+
18.18	1	12	25	6	+
18.17	1	4	8	2	+
14.16	+	+	+	0	0
12.13	0	+	+	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

768

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
24.25	0	+	0	0
22.23	+	1	1	+
20.21	1	6	4	1
18.18	3	19	16	3
18.17	4	18	16	9
14.16	+	3	3	1
12.13	0	+	+	+
10.11	0	0	0	0
8.8	0	0	0	0
6.7	0	0	0	0
4.5	0	0	0	0

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	1	+	0	0
20.21	0	1	2	1	+
18.18	1	4	6	3	1
18.17	1	3	6	4	1
14.16	2	7	6	4	+
12.13	1	8	11	3	1
10.11	1	4	7	3	+
8.8	+	2	3	1	+
6.7	0	0	0	1	0
4.5	0	0	0	+	0
2.3	0	0	0	0	0

581

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	<	1	2	1	+
18.18	1	6	8	5	1
18.17	3	9	11	6	2
14.16	2	8	11	5	2
12.13	1	2	5	2	1
10.11	+	+	2	2	+
8.8	0	0	+	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

635

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.16	0	+	4	-	0
12.13	0	3	8	3	0
10.11	1	8	15	4	1
8.8	+	5	22	4	0
6.7	+	5	10	7	3
4.5	0	0	0	1	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0

227

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	0	4	3	0
8.8	1	11	9	19	0
6.7	1	8	16	9	3
4.5	0	3	5	8	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

75

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
70.21	0	0	+	0	0
18.18	+	2	3	1	0
18.17	1	9	16	1	0
14.16	1	11	17	9	2
12.13	2	10	8	2	0
10.11	1	1	3	1	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	1	0
0.1	0	0	0	0	0

270

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
24.25	0	+	0	0
22.23	+	>	0	0
20.21	+	0	+	0
18.18	+	2	1	0
18.17	2	5	9	2
14.16	1	7	8	4
12.13	2	11	13	6
10.11	1	4	5	3
8.8	0	2	2	+
6.7	0	0	0	0
4.5	0	0	0	0

Graphs represent the objective compilation of available data for specified areas without
The **isopleth** analyses (opposite page) are based on all available data subjectively adjust

PERATURE

FEBRUARY

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	+	+	+	0	0
28.29	1	2	1	0	0
26.27	3	12	5	+	0
24.25	5	31	11	+	0
22.23	4	17	7	0	0
20.21	0	+	1	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

992

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	2	11	1	0	0
26.27	9	36	10	0	0
24.25	8	16	5	0	0
22.23	0	1	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

536

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	1	2	+	0
28.29	+	6	8	2	0
26.27	1	16	28	6	+
24.25	1	6	14	4	+
22.23	+	+	1	1	+
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

5512

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	1	2	+	+	0
28.29	10	29	5	+	+
26.27	18	31	4	0	0
24.25	+	1	+	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

7394

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	1	3	2	+	0
28.29	5	26	17	+	0
26.27	6	24	11	+	+
24.25	+	1	1	+	0
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4697

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	+	+	+	0	0
30.31	+	1	2	+	0
28.29	2	8	8	1	+
26.27	5	26	25	3	+
24.25	1	7	9	1	+
22.23	+	+	+	+	0
20.21	+	+	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4786

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	6	3	1	0	0
28.29	19	33	5	+	0
26.27	9	19	3	0	0
24.25	1	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

346

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	+	0	0
30.31	7	6	1	0	0
28.29	22	27	6	1	0
26.27	6	13	5	1	0
24.25	1	2	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

739

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	7	2	+	0	0
30.31	9	10	1	0	0
28.29	16	30	6	+	0
26.27	6	10	4	0	0
24.25	+	2	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

249

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	2	5	1	0	0
28.29	10	29	9	1	0
26.27	9	18	11	1	0
24.25	+	1	2	0	0
22.23	+	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

278

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	+	0	0
30.31	+	3	1	+	0
28.29	+	12	16	1	0
26.27	2	23	30	3	+
24.25	1	3	2	1	1
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

579

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	3	2	0	0
28.29	2	11	14	2	+
26.27	3	23	29	4	1
24.25	+	2	2	+	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

839

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	1	0	0	0
32.33	2	7	+	0	0
30.31	6	13	5	0	0
28.29	10	26	11	1	+
26.27	1	9	4	1	0
24.25	0	1	2	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

306

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	+	0	0
30.31	3	5	2	0	0
28.29	8	25	17	2	+
26.27	4	18	12	2	+
24.25	+	1	1	+	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

909

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	0	0	0	0
28.29	1	5	10	2	0
26.27	3	19	21	6	0
24.25	1	7	16	7	0
22.23	0	1	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

141

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	1	0	+	0
26.27	1	2	3	+	0
24.25	1	9	17	5	0
22.23	2	9	25	15	1
20.21	0	1	5	2	+
18.19	0	0	0	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

298

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	+	0	0
26.27	+	5	8	+	0
24.25	+	10	26	4	1
22.23	+	11	27	8	+
20.21	0	+	1	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

466

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	0	1	1	0	0
28.29	2	5	2	1	0
26.27	2	19	14	2	0
24.25	1	15	17	6	1
22.23	0	5	6	2	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

328

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	2	1	2	0	0
26.27	2	8	4	3	0
24.25	3	16	13	1	0
22.23	3	15	8	6	1
20.21	0	4	4	4	0
18.19	0	1	1	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

174

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	0	+	0	0
24.25	+	1	1	0	0
22.23	+	2	4	1	0
20.21	+	9	16	3	+
18.19	1	12	25	6	+
16.17	1	4	8	2	+
14.15	+	+	+	0	0
12.13	0	+	+	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

758

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	0	0	0
22.23	+	1	1	+	0
20.21	1	8	4	1	0
18.19	3	19	15	3	+
16.17	4	16	15	3	+
14.15	+	3	3	1	+
12.13	0	+	+	+	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

2054

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	2	1	+	0
26.25	+	4	8	2	0
22.23	2	14	18	4	+
20.21	1	12	13	3	1
18.19	1	4	6	2	+
16.17	0	0	1	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

536

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	1	+	0	0
24.25	2	5	5	1	0
22.23	4	14	22	3	2
20.21	2	12	16	5	1
18.19	1	1	3	1	+
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

387

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	0	0	0
20.21	+	1	1	0	0
18.19	0	1	3	1	0
16.17	1	5	5	4	1
14.15	2	8	8	4	1
12.13	1	9	13	5	1
10.11	+	4	8	3	1
8.9	0	+	1	2	+
6.7	+	+	0	+	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0

432

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	0	4	3	0
8.9	1	11	9	10	0
6.7	1	8	16	9	3
4.5	0	3	5	8	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

75

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	0	+	0	0
18.19	+	2	3	1	0
16.17	1	9	16	1	0
14.15	1	11	17	8	2
12.13	2	10	8	2	0
10.11	1	1	3	1	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

270

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	0	0	0
22.23	+	+	0	0	0
20.21	+	0	+	0	0
18.19	+	2	1	0	0
16.17	2	5	9	2	+
14.15	1	7	8	4	+
12.13	2	11	13	6	4
10.11	1	4	6	3	4
8.9	0	0	2	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

254

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	+	2	1	0	0
16.17	1	5	13	2	+
14.15	2	8	15	6	1
12.13	1	7	16	9	1
10.11	0	+	3	3	1
8.9	0	0	0	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

282

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	3	1
12.13	0	0	1	0	2
10.11	0	0	4	0	0
8.9	0	4	8	7	2
6.7	4	10	11	22	7
4.5	0	2	11	6	3
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

107

45

WIND SPEED (KTS)

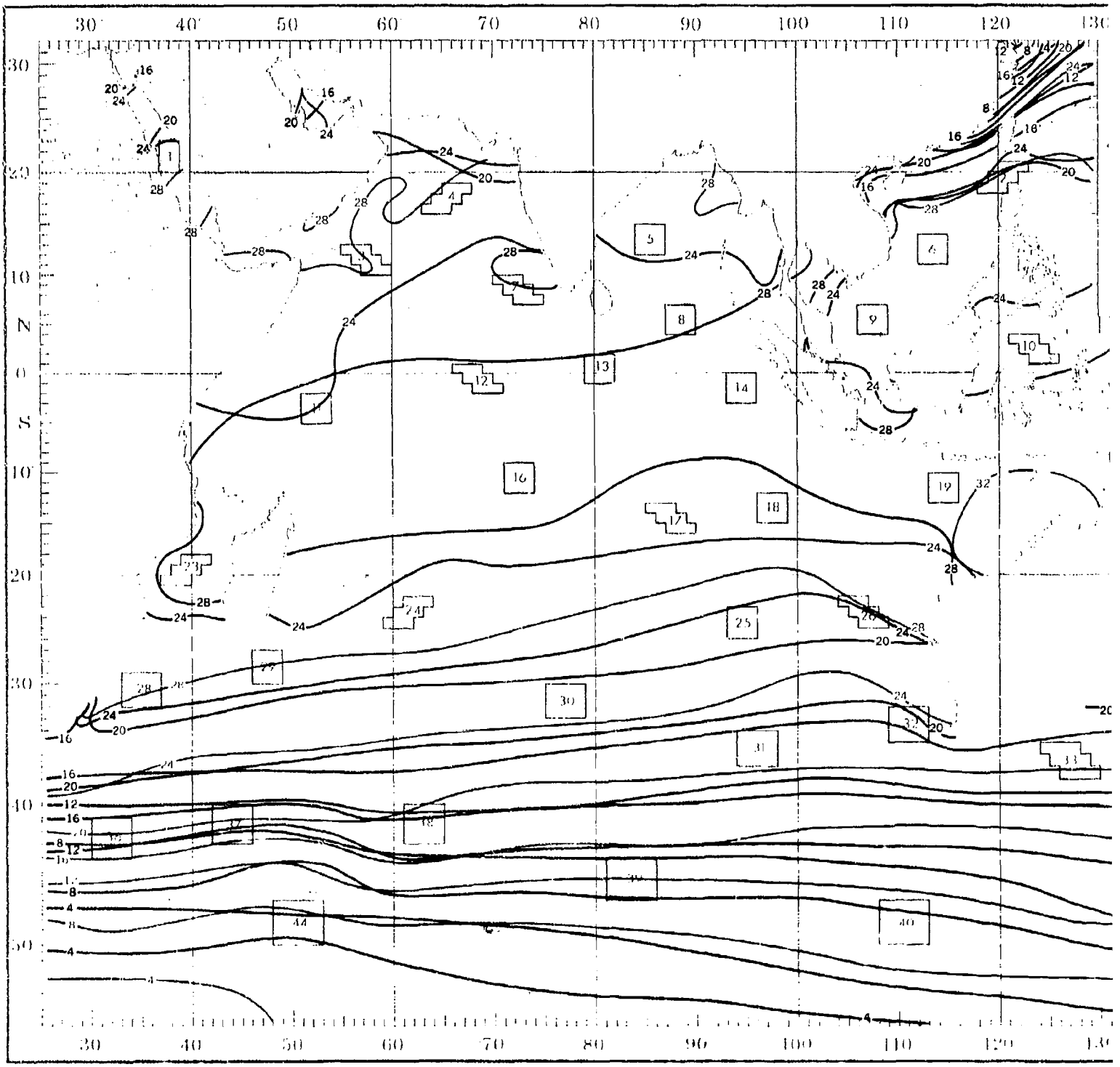
TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	+	+	0
12.13	+	4	8	8	2
10.11	+	5	22	17	2
8.9	0	2	12	11	2
6.7	0	0	2	2	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

244

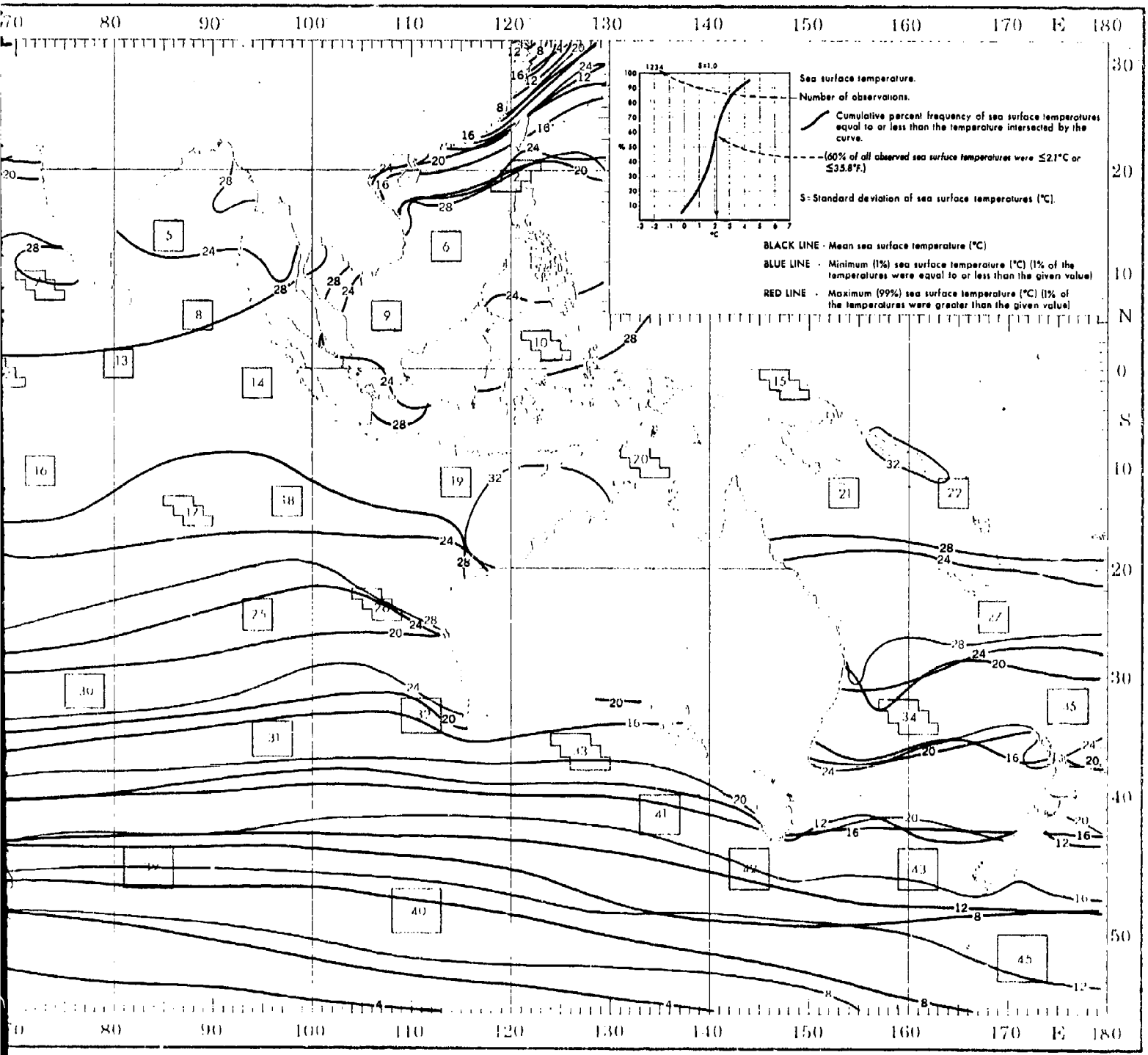
ective compilation of available data for specified areas without regard to suspected biases.

pposite page) are based on all available data subjectively adjusted where bias was evident.

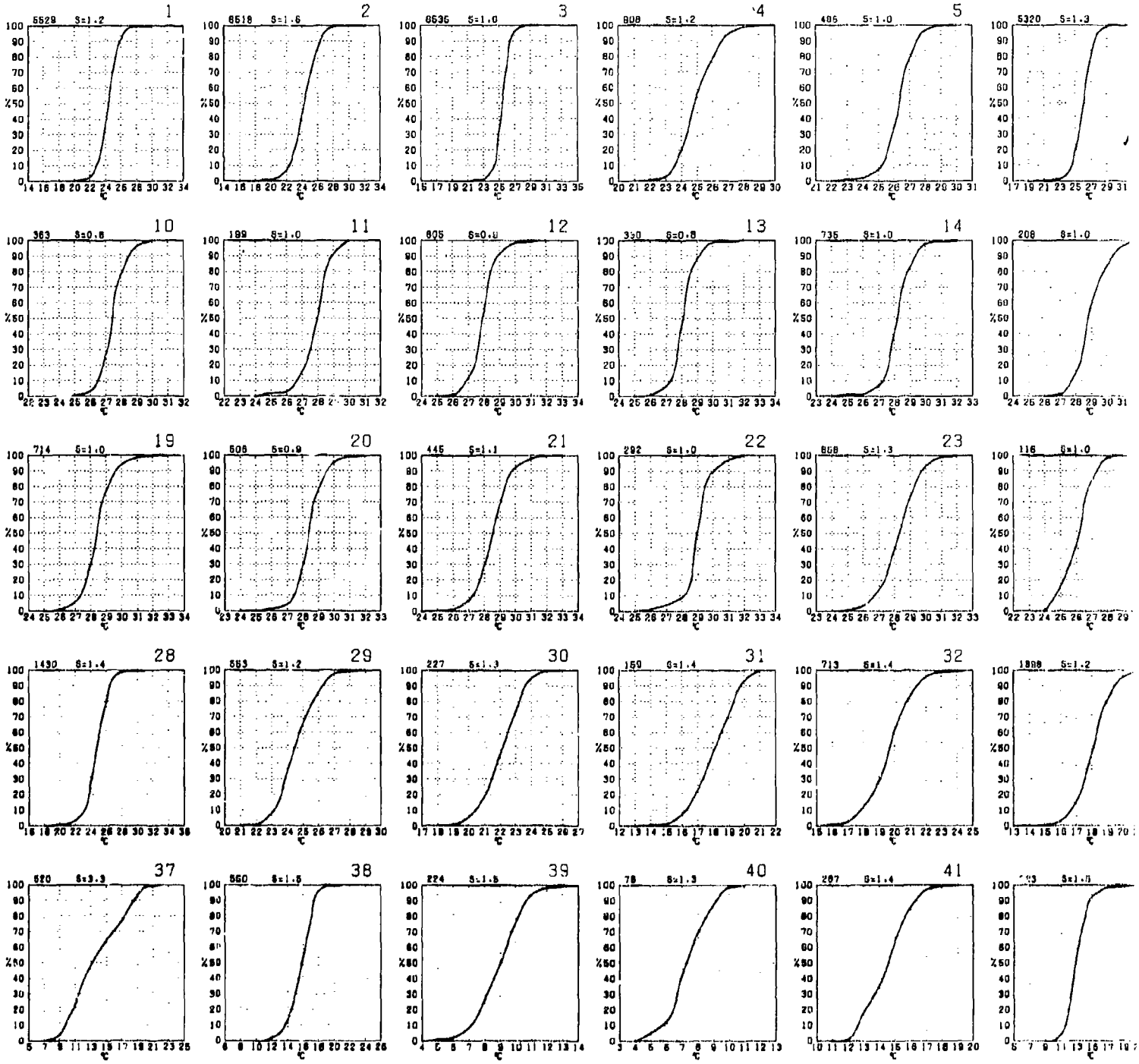
FEBRUARY



SEA SURFACE TEMPERATURE



SEA SURFACE TEMPERATURE



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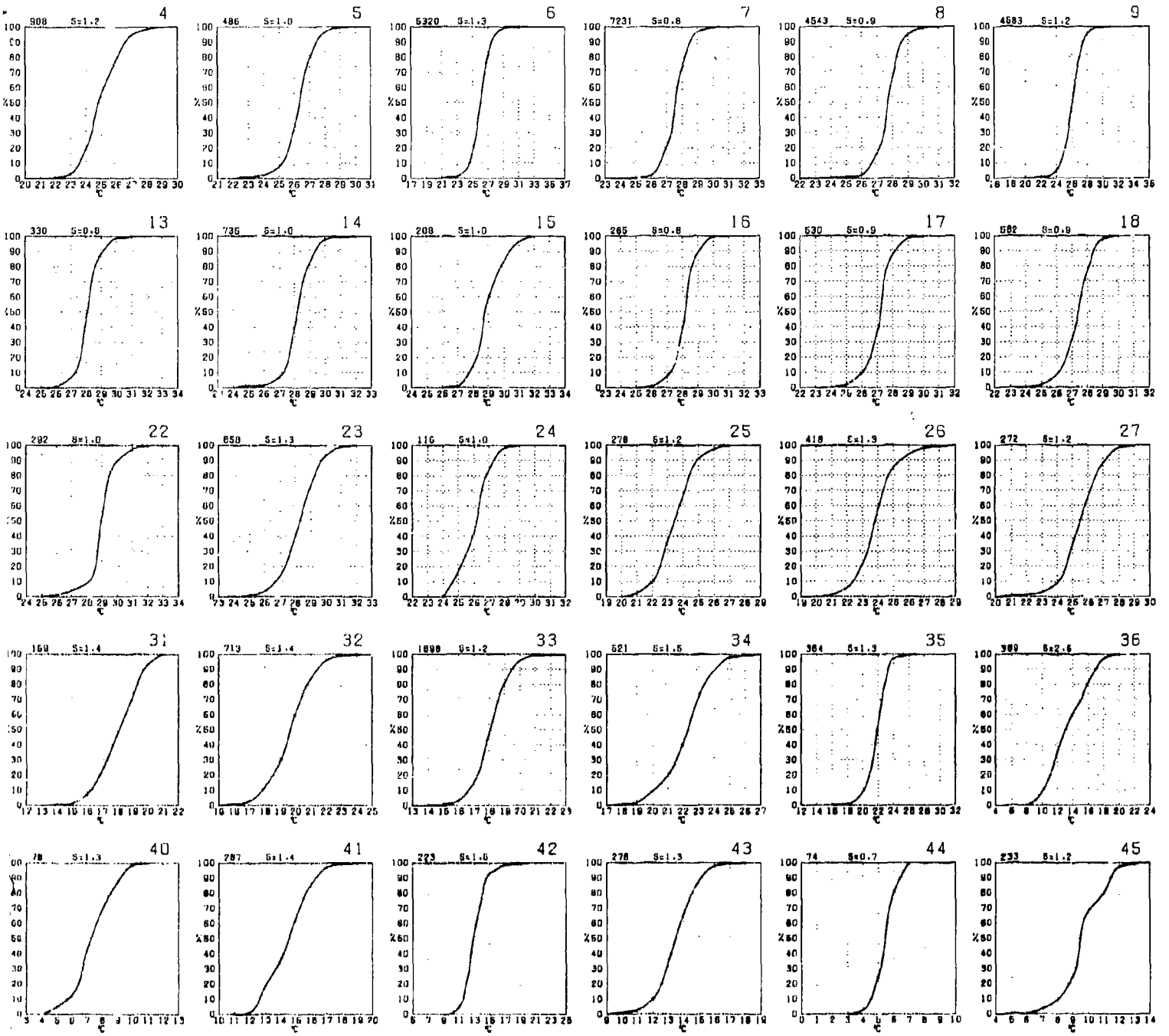
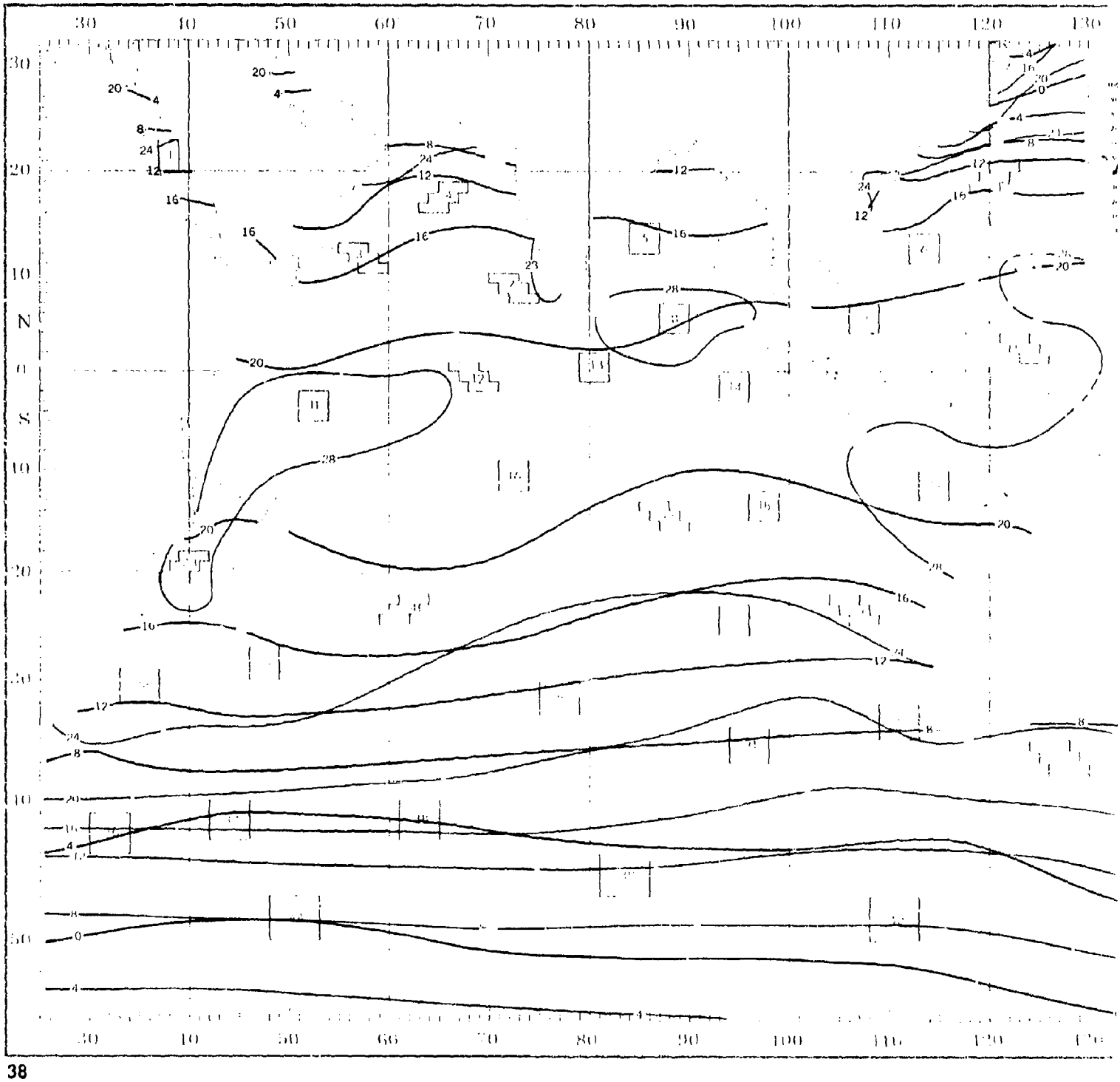
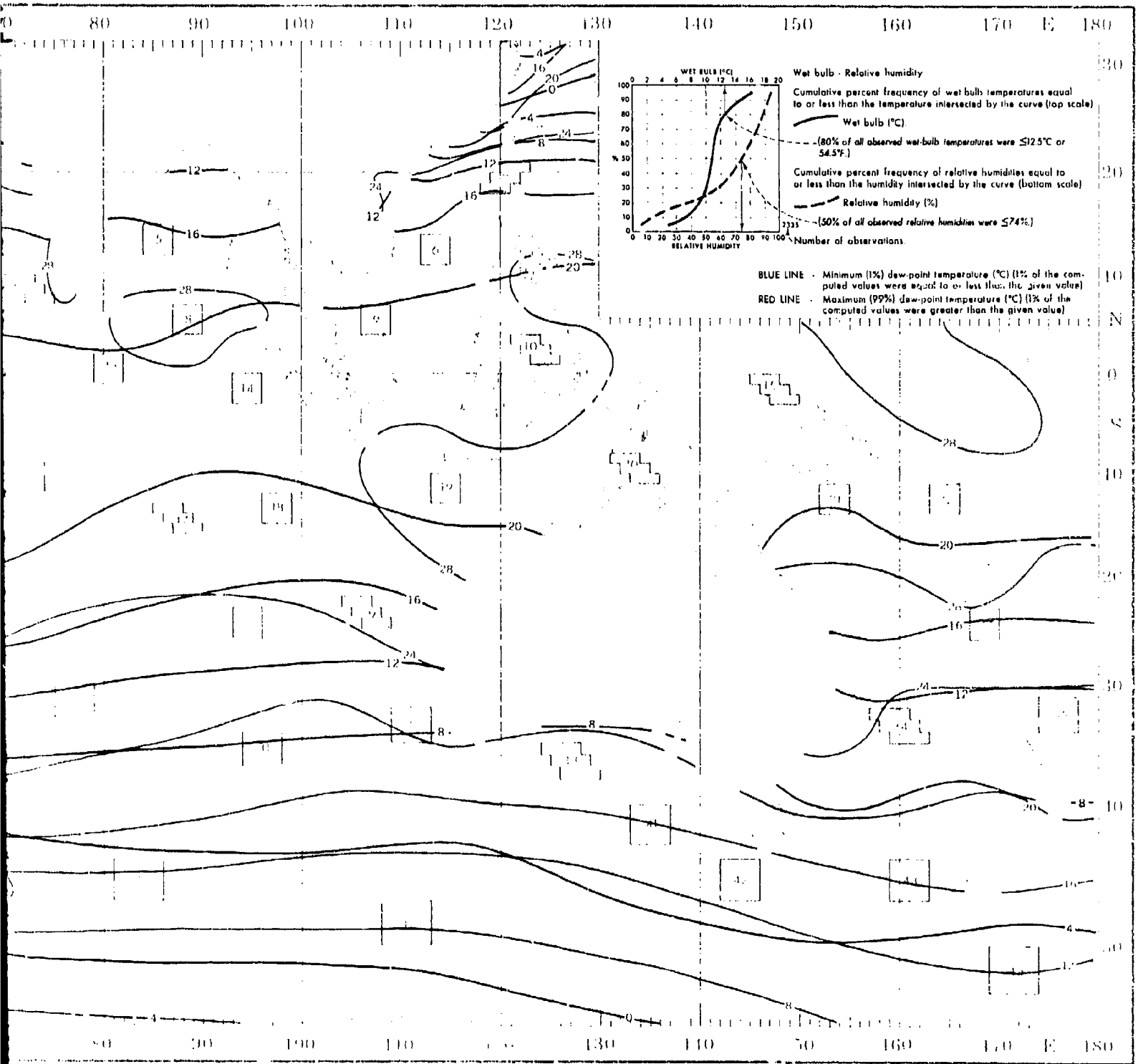


ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

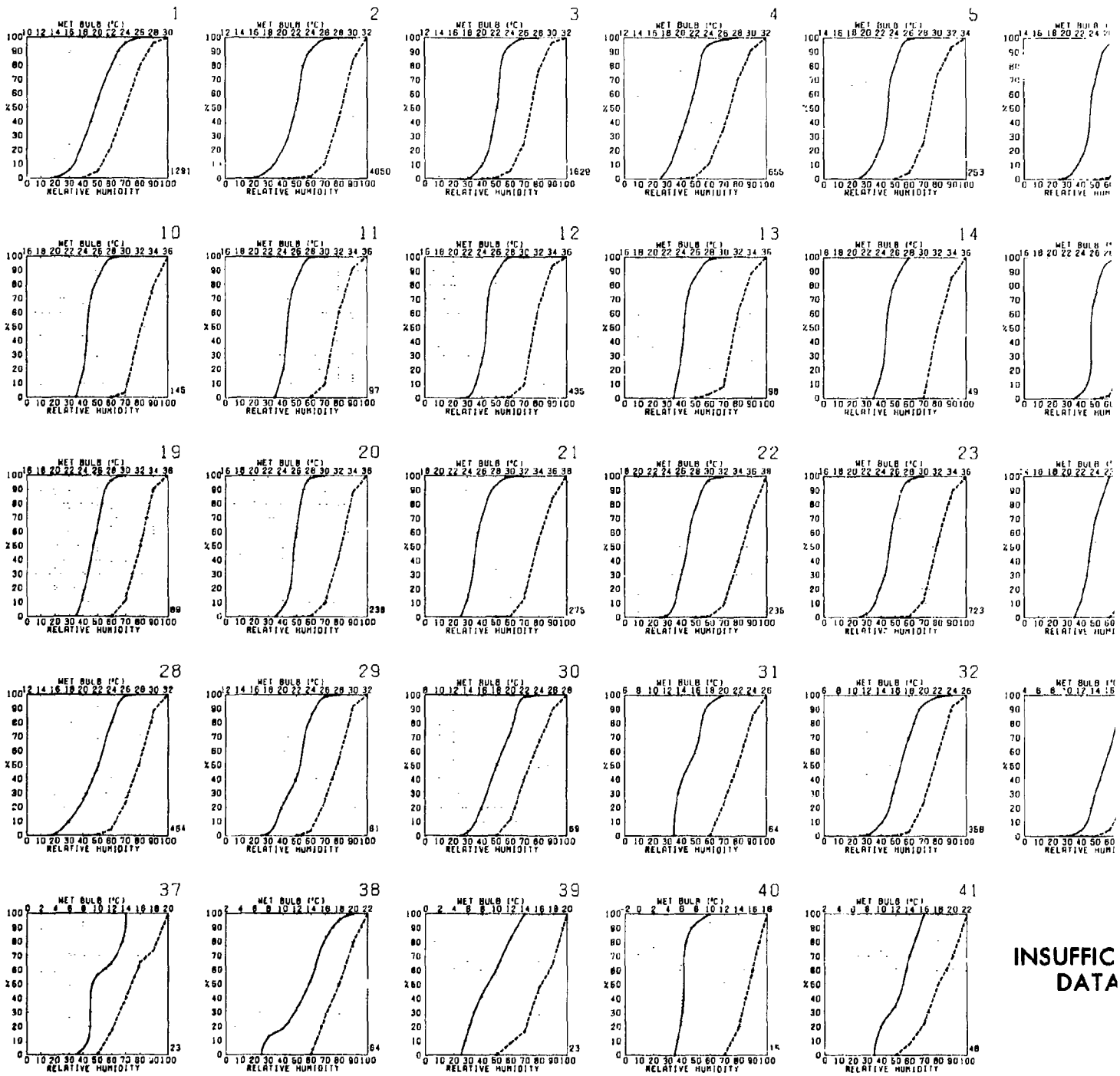
FEBRUARY



HUMIDITY


WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity
Cumulative percent frequency of wet bulb temperatures equal to or less than the temperature intersected by the curve (top scale)
Wet bulb (°C)
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale)
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

WET BULB AND RELATIVE HUMIDITY



INSUFFIC
DATA

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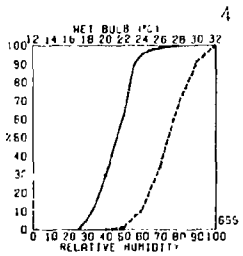
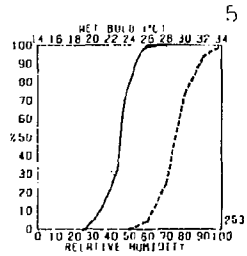
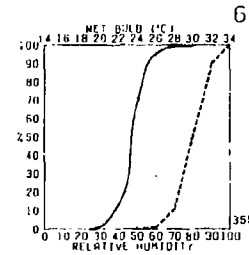
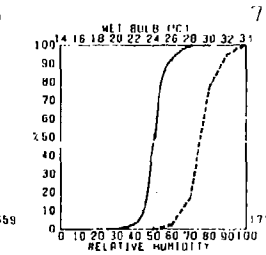
UMIDITY

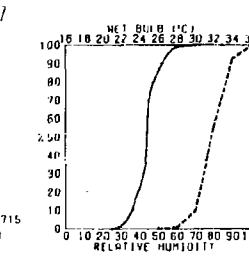
FEBRUARY

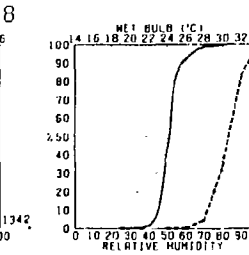


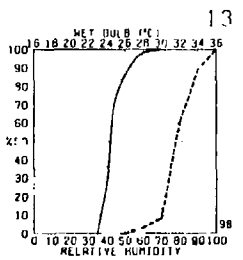


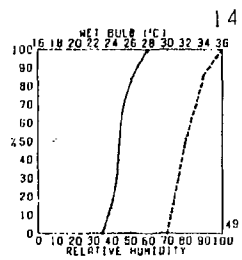


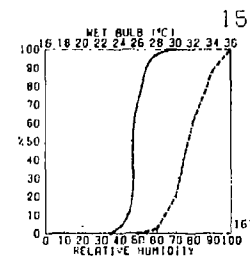


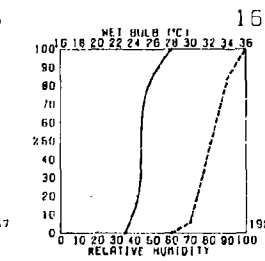


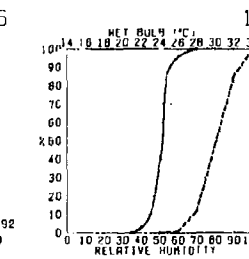


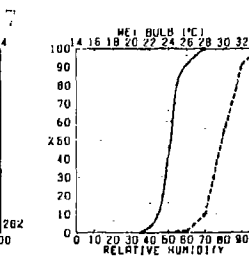


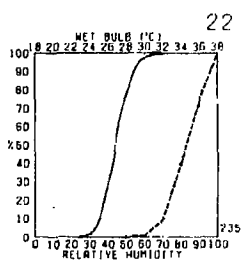


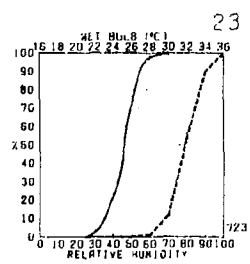


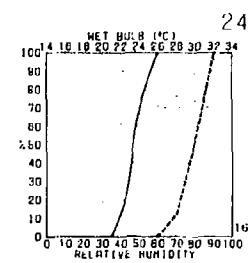


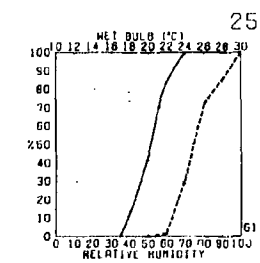


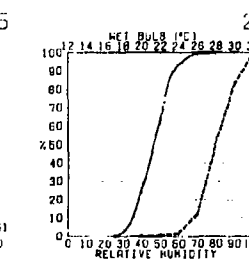


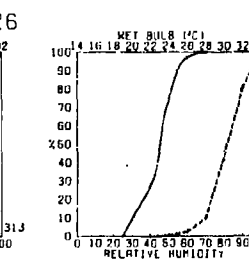


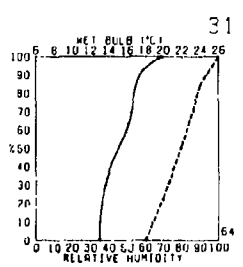


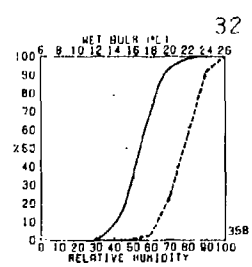


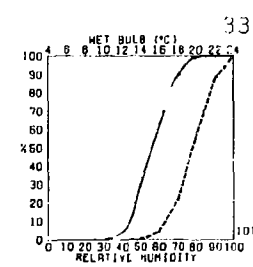


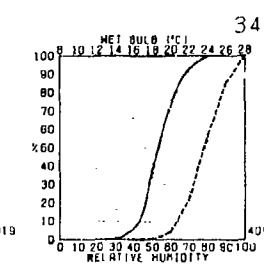


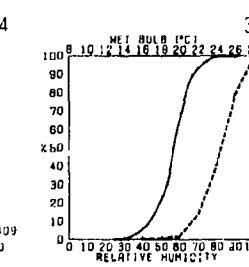












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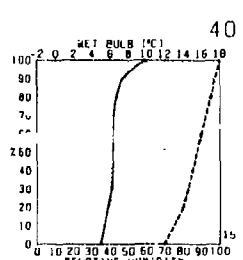

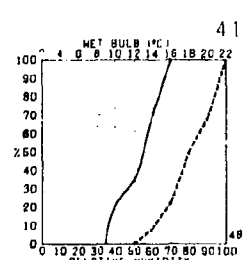

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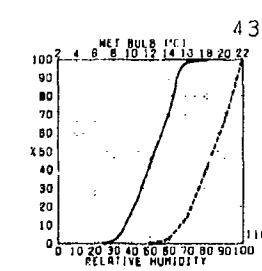

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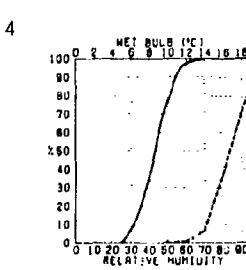
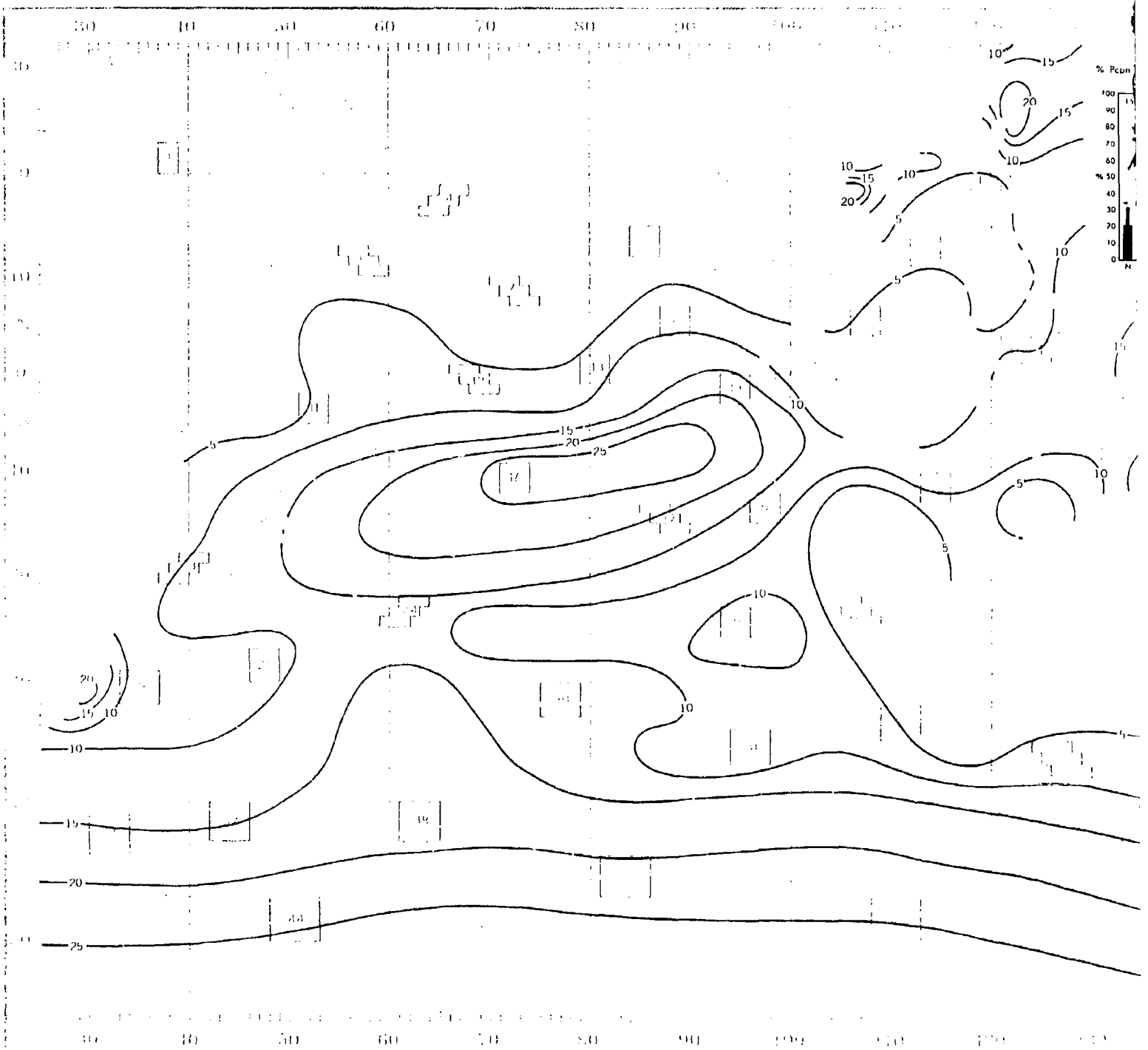


jective compilation of available data for specified areas without regard to suspected biases.
pposite page] are based on all available data subjectively adjusted where bias was evident.

FEBRUARY



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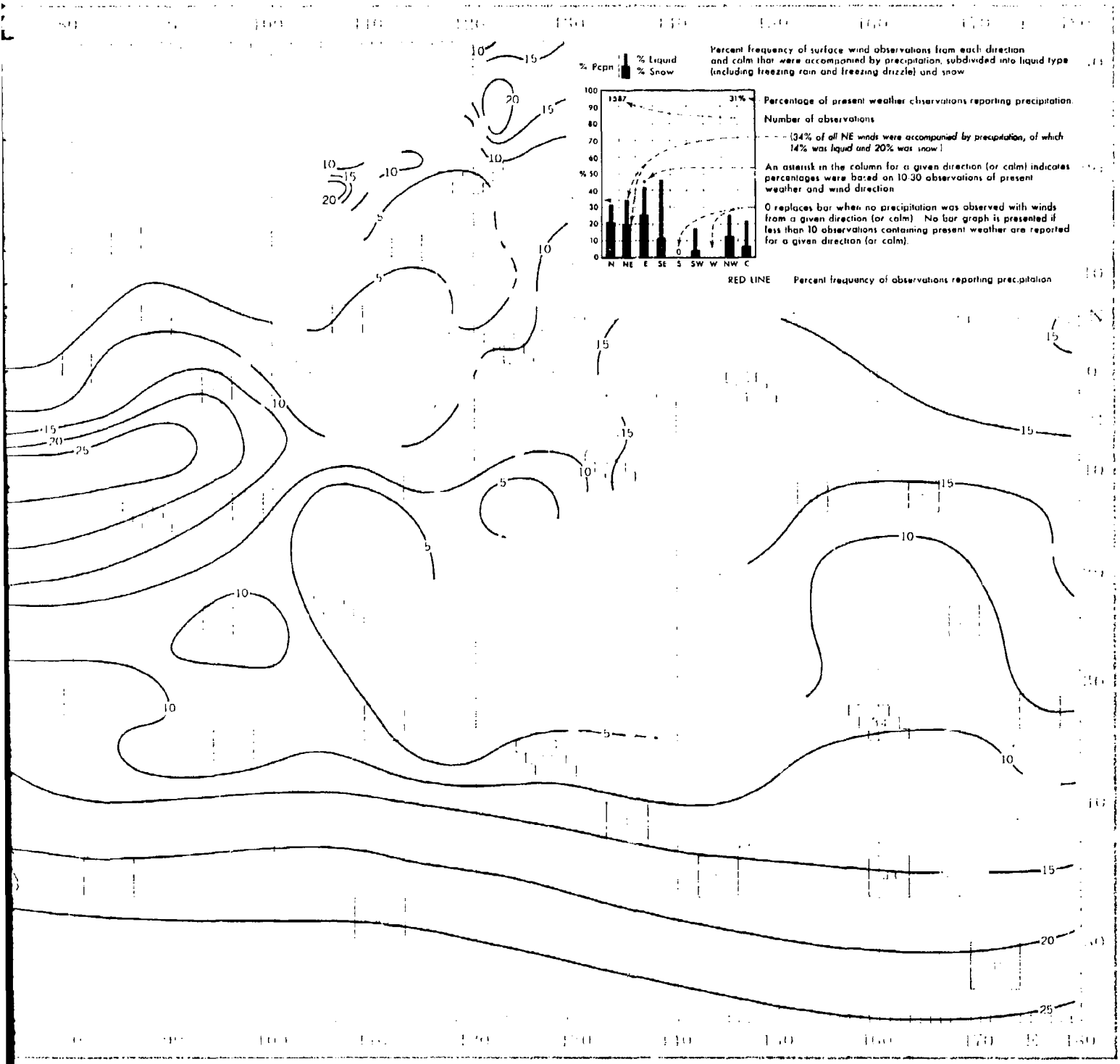

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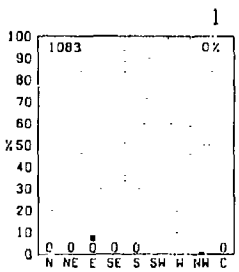
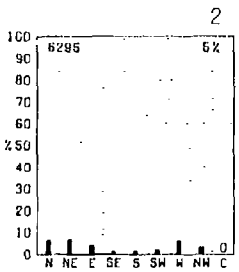
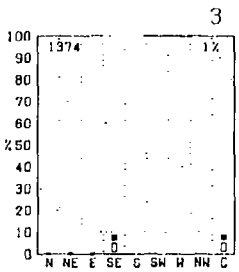
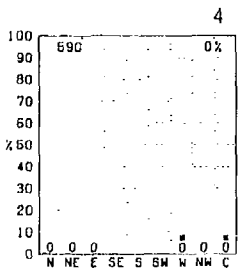
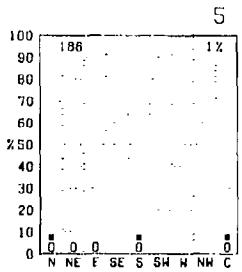
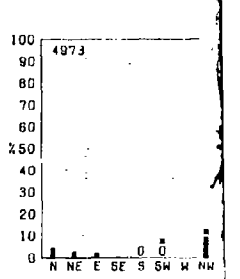


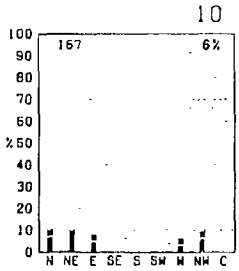


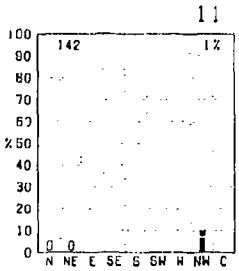


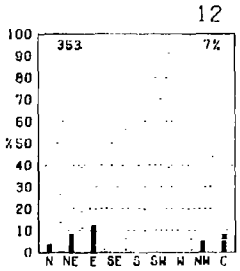


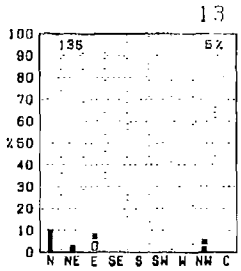


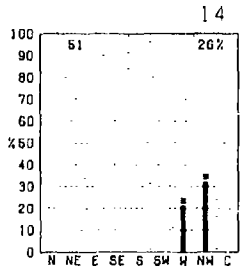


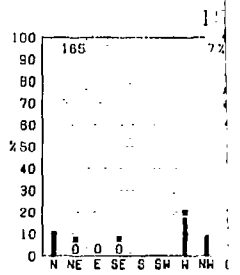


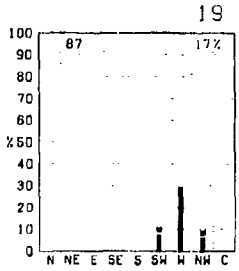


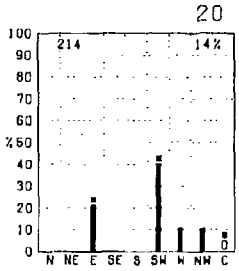


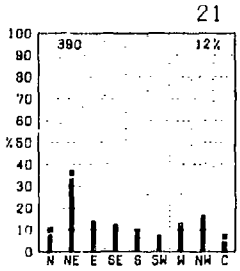


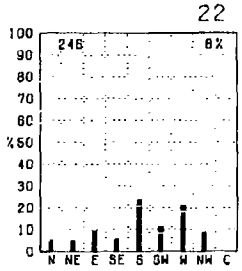


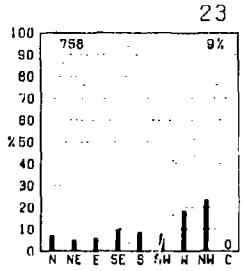






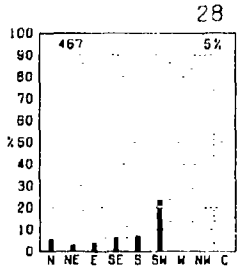


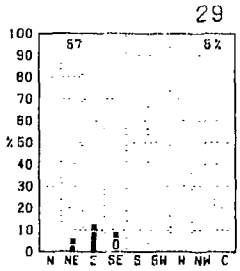


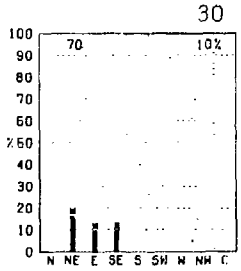


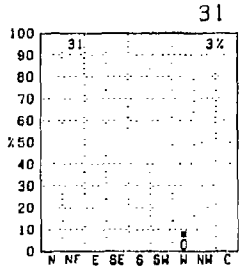
24

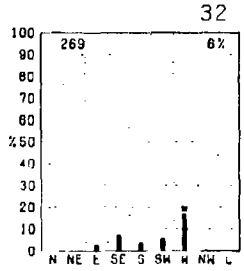
INSUFFICIENT DATA

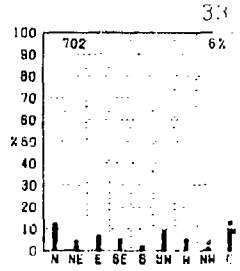


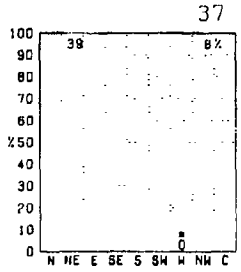


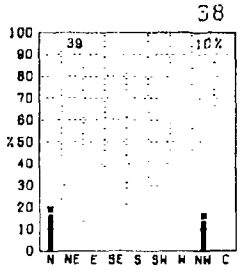












39

INSUFFICIENT DATA

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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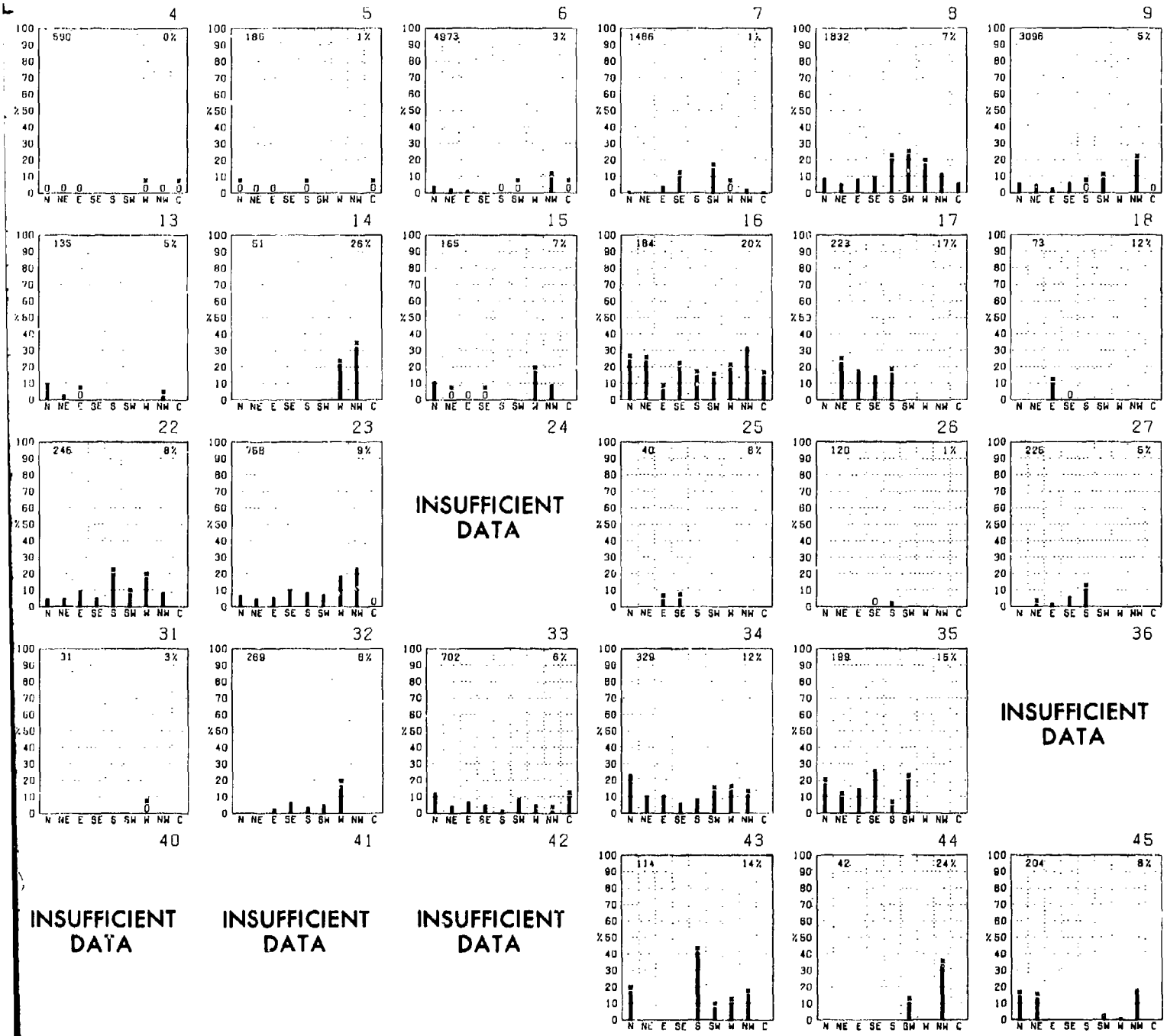
INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjust

FEBRUARY



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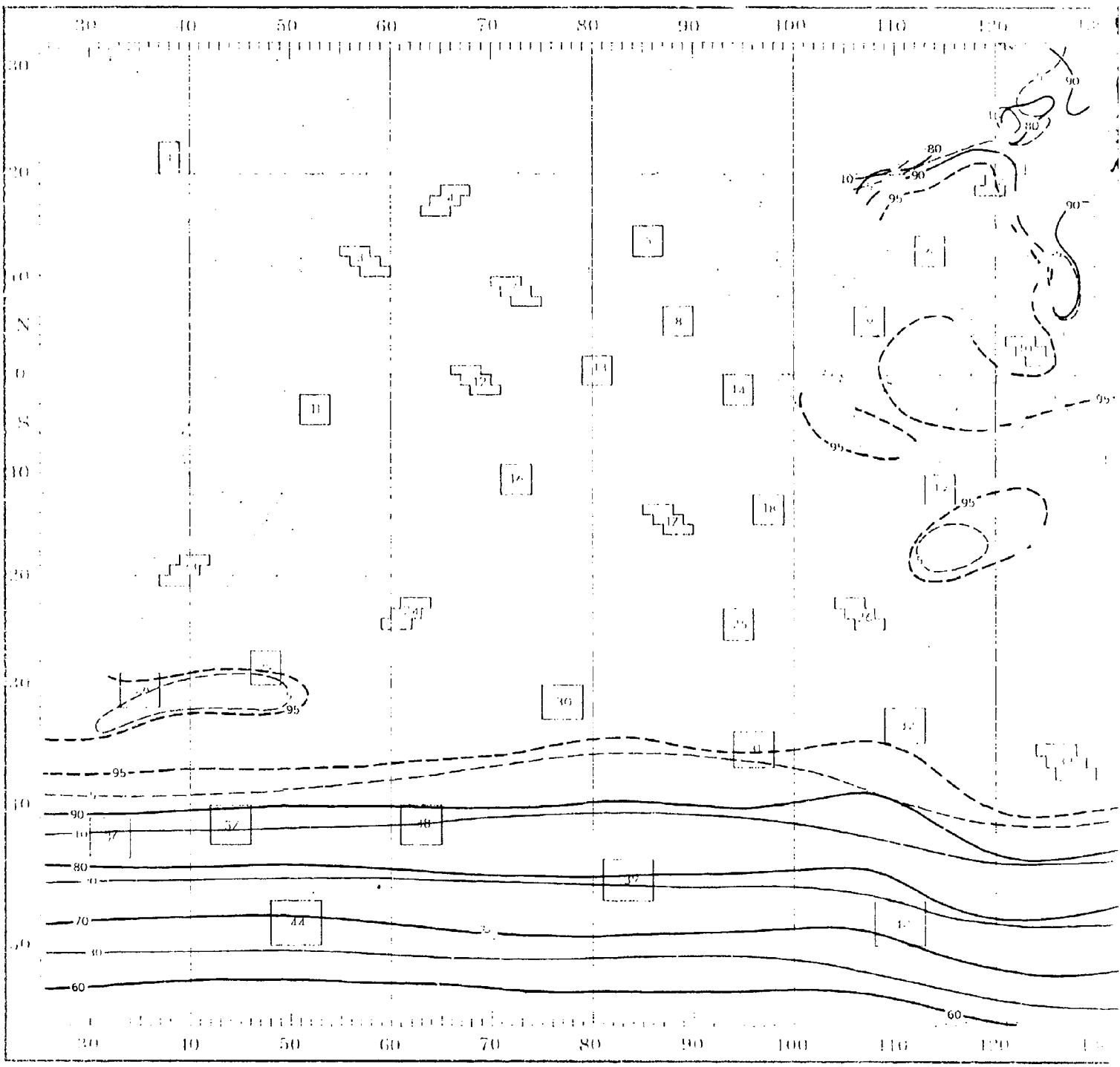
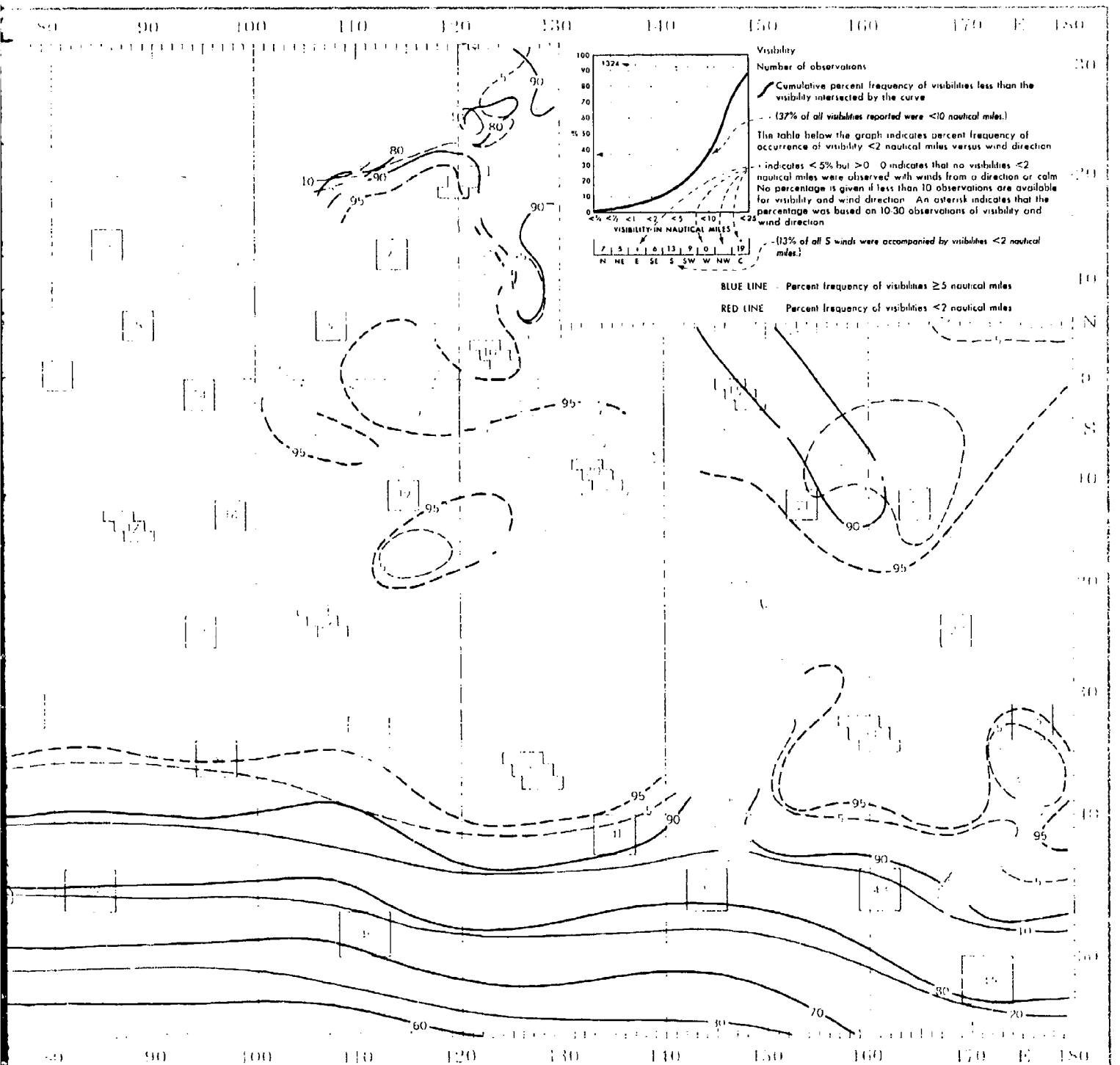
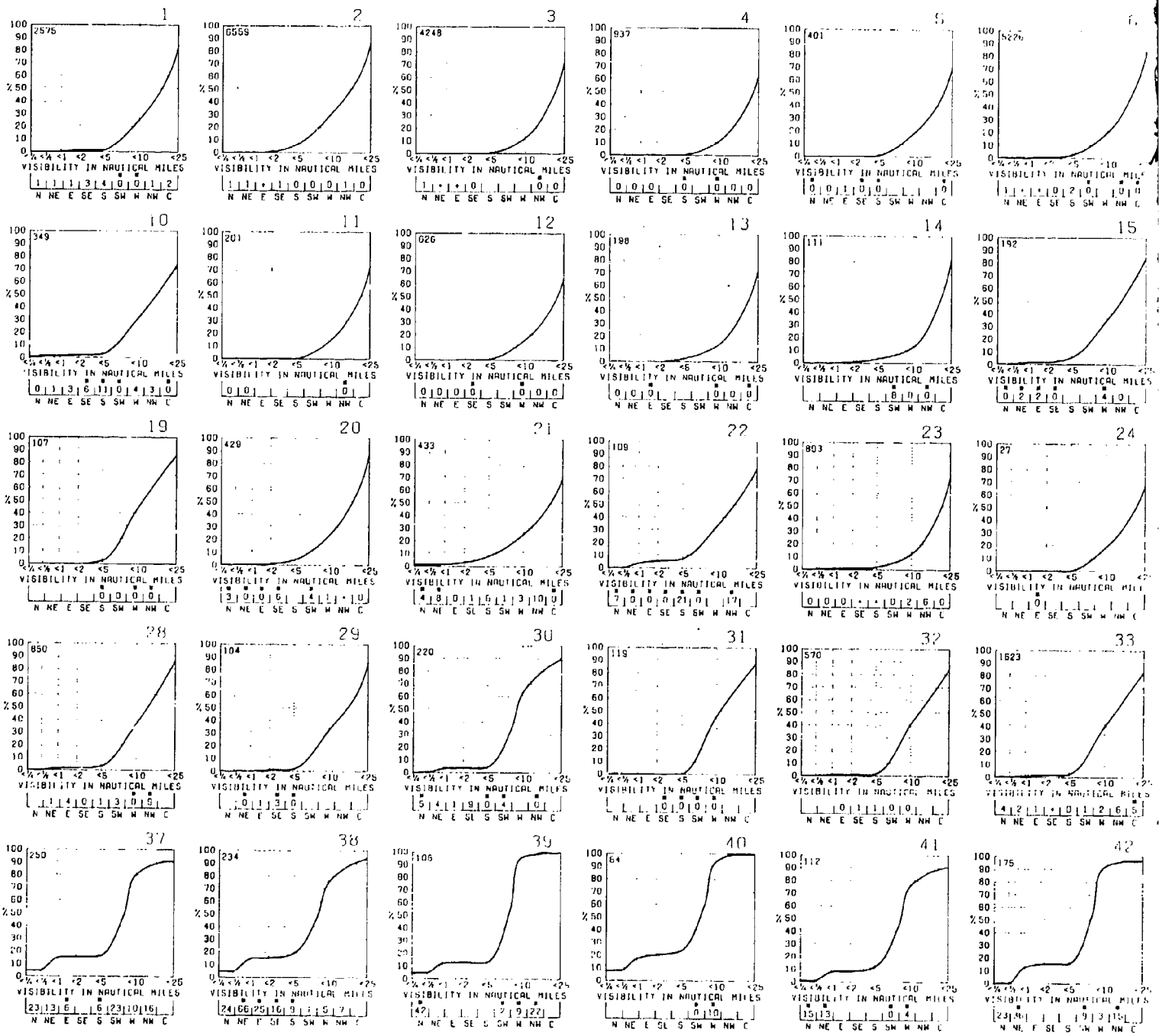
FEBRUARY



VISIBILITY


Visibility
Number of observations
1324
Cumulative percent frequency of visibilities less than the visibility intersected by the curve
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction
- indicates < 5% but >0 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm No percentage is given if less than 10 observations are available for visibility and wind direction An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE Percent frequency of visibilities ≥5 nautical miles
RED LINE Percent frequency of visibilities <2 nautical miles

VISIBILITY



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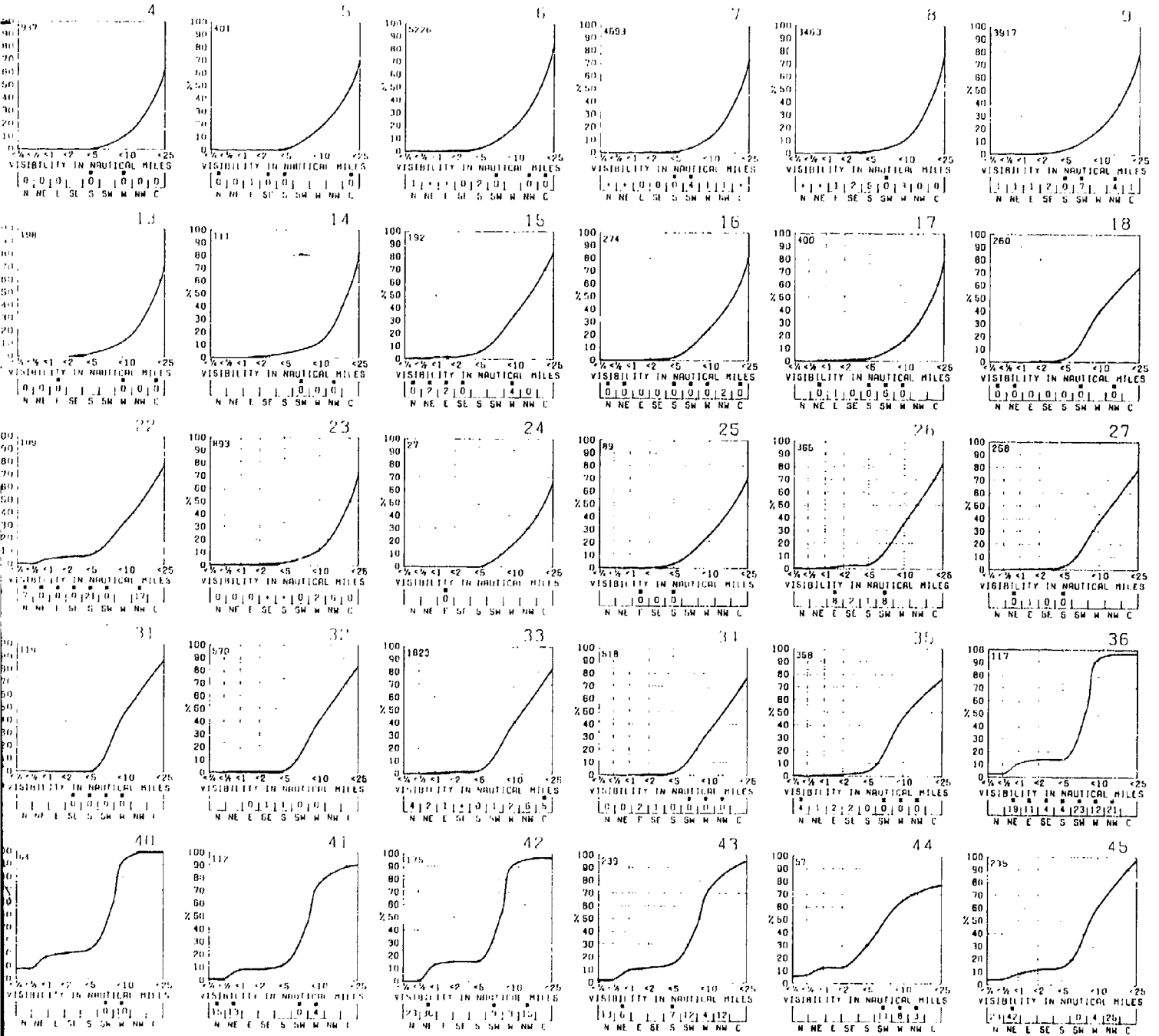

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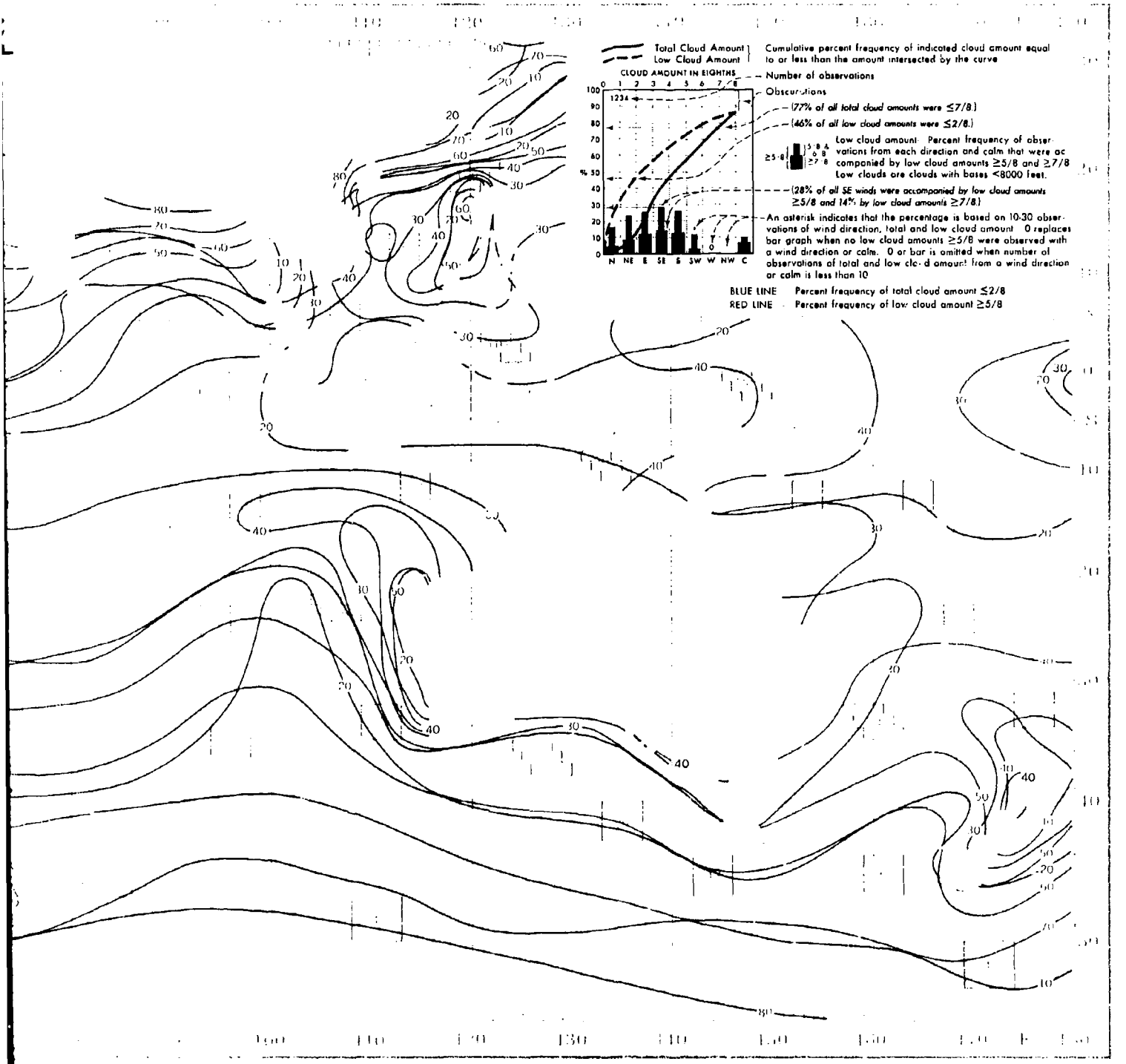
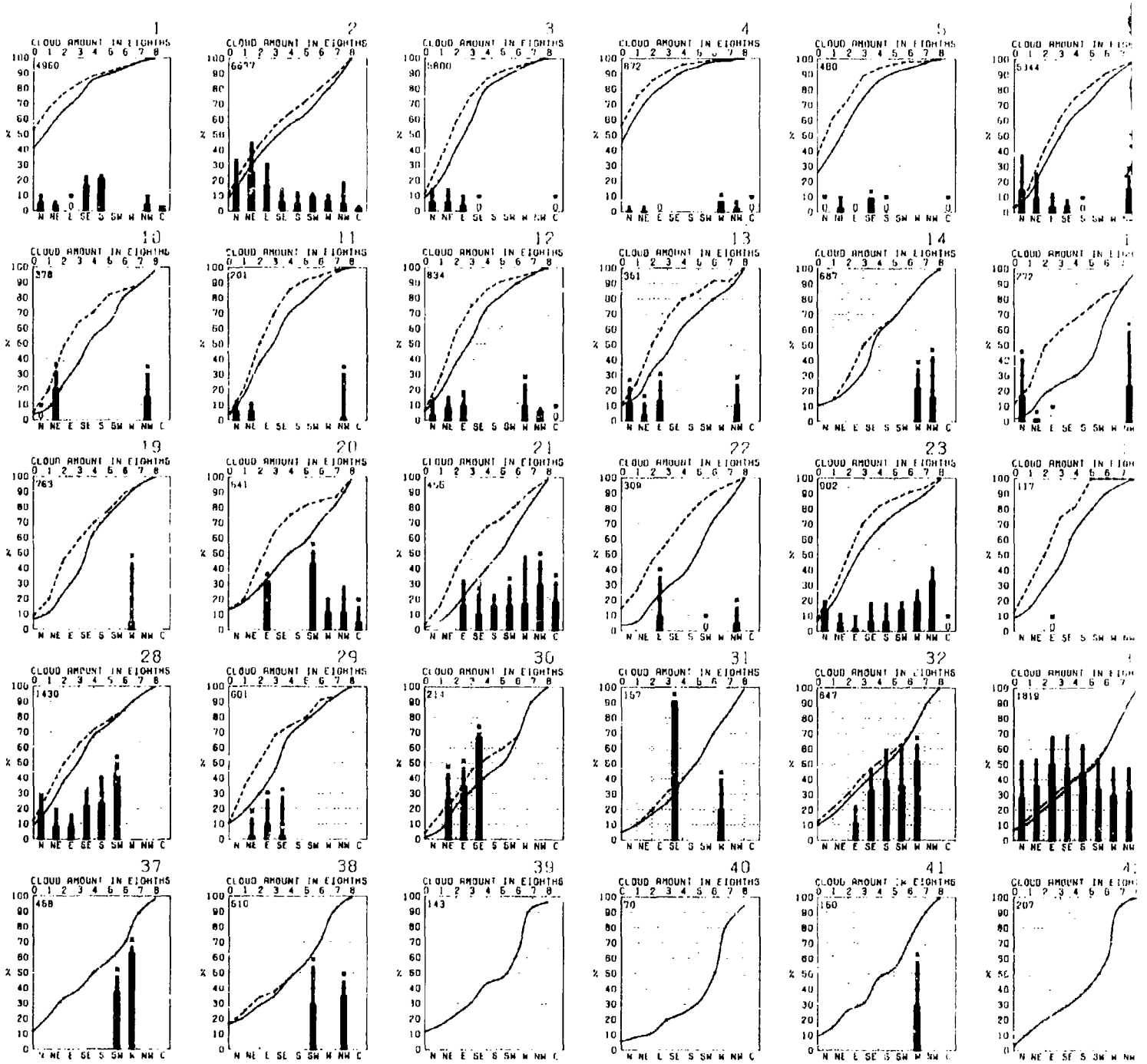
CLOUD COVER


Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve
CLOUD AMOUNT IN EIGHTHS
0 1 2 3 4 5 6 7 8
Number of observations
Observations
1234
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5-8
≥7-8
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10
N NE E SE S SW W NW C
BLUE LINE — Percent frequency of total cloud amount ≤2/8
RED LINE — Percent frequency of low cloud amount ≥5/8

CLOUD COVER



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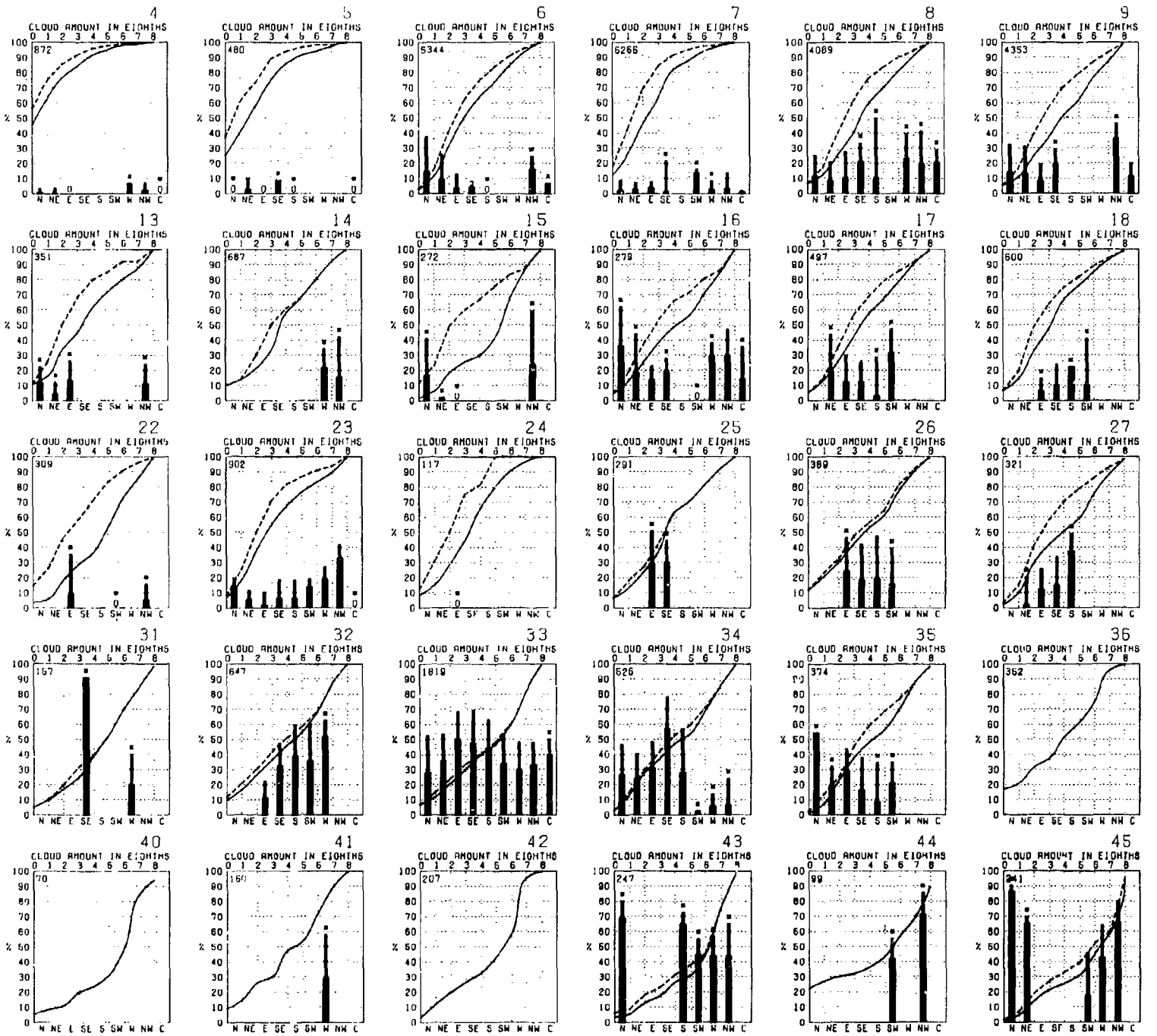

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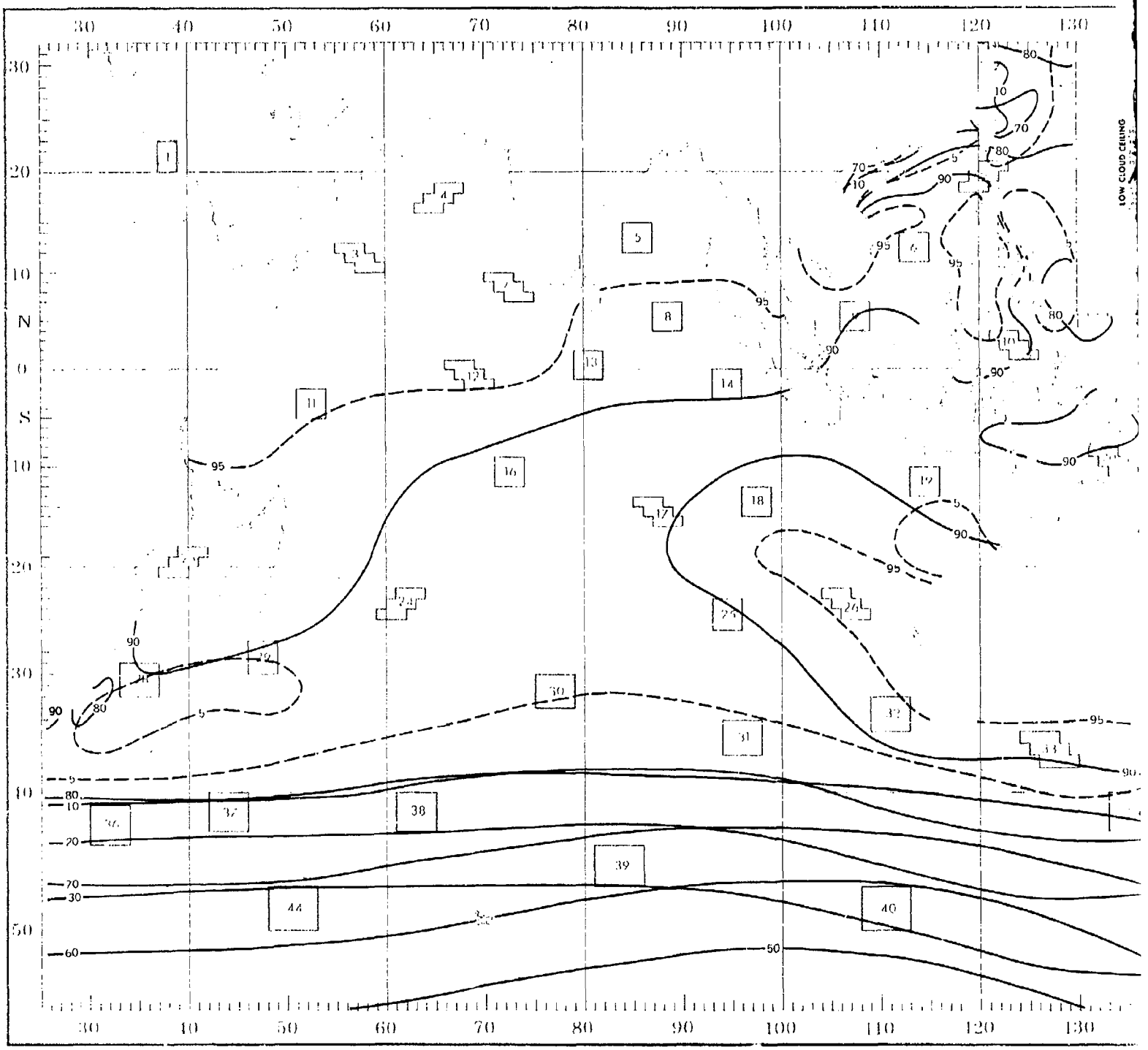
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LOW CLOUD CEILING
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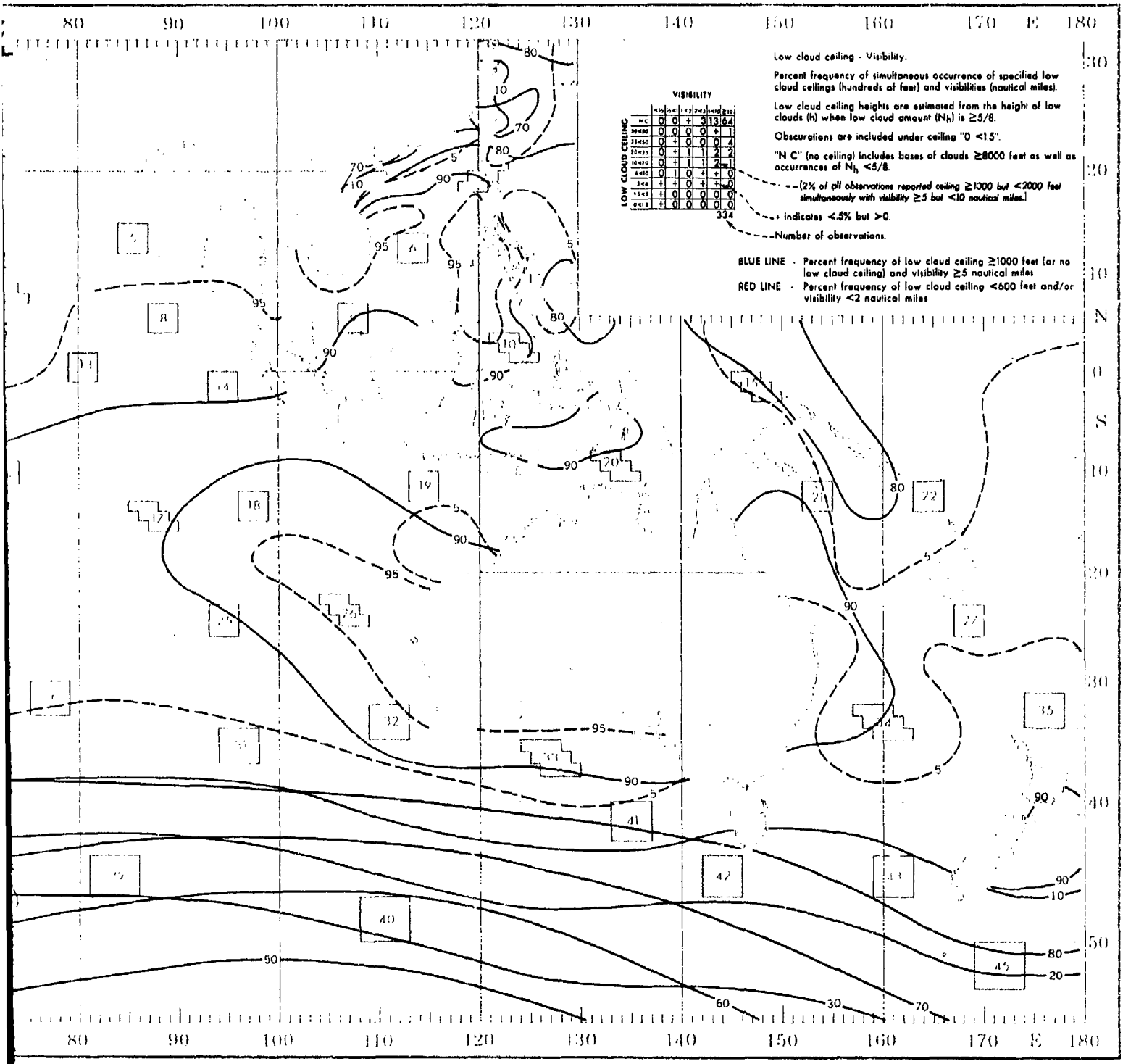
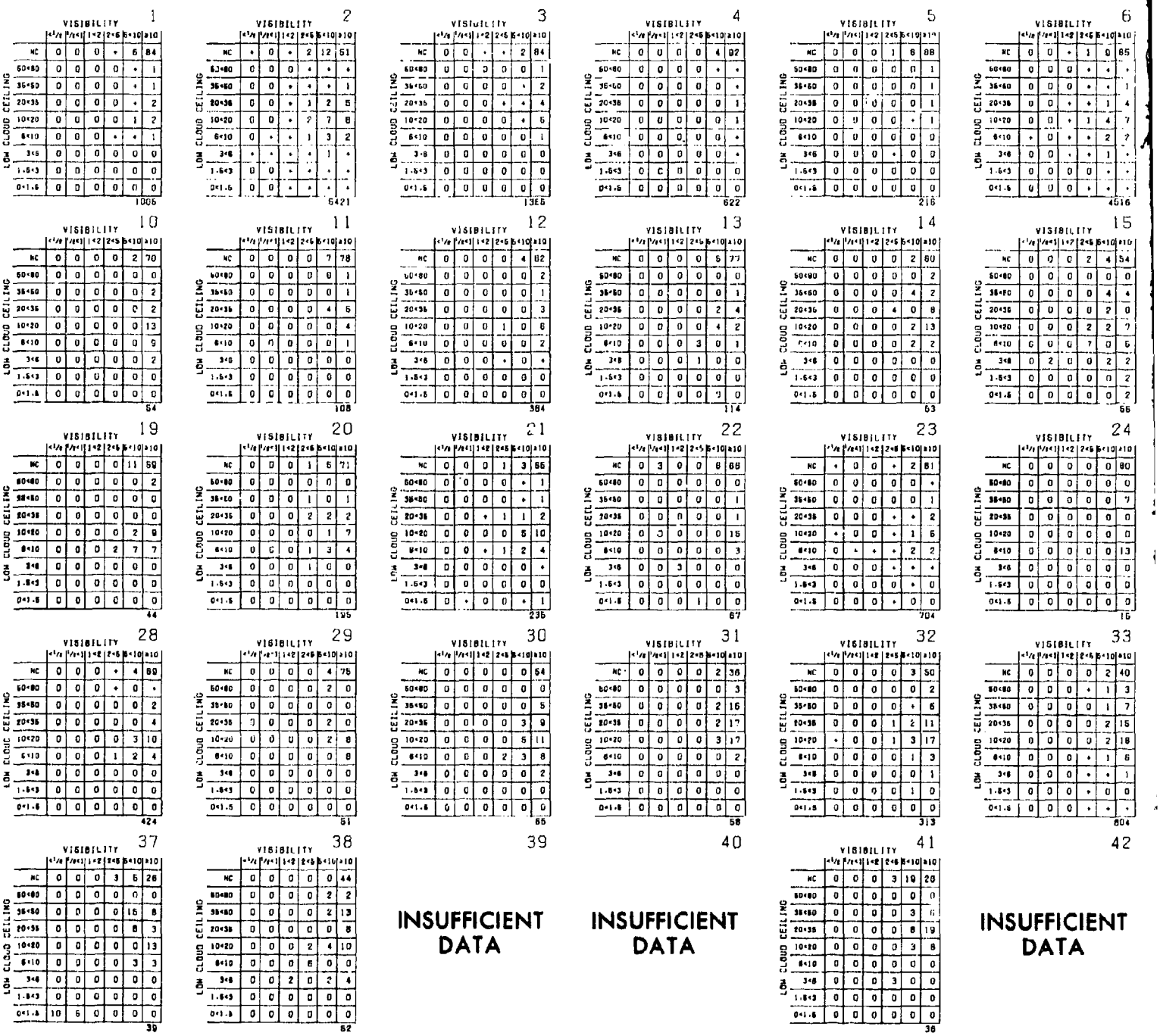
CEILING AND VISIBILITY



CEILING AND VISIBILITY



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The isopleth analyses (opposite page) are based on all available data subjectively adjusted

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4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	4	92
50-80	0	0	0	0	*	*
35-50	0	0	0	0	0	*
20-35	0	0	0	0	0	1
10-20	0	0	0	0	0	1
5-10	0	0	0	0	0	*
3-5	0	0	0	0	0	*
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

622

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	1	8	88
50-80	0	0	0	0	0	1
35-50	0	0	0	0	0	1
20-35	0	0	0	0	0	1
10-20	0	0	0	0	*	1
5-10	0	0	0	0	0	0
3-5	0	0	0	*	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

216

6

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	*	1	9	85
50-80	0	0	0	*	*	*
35-50	0	0	0	*	*	1
20-35	0	0	*	*	1	4
10-20	0	0	*	1	4	7
5-10	*	0	*	*	2	2
3-5	0	0	*	*	1	*
1.5-3	0	0	0	0	*	*
0-1.5	0	0	0	*	*	*

4616

7

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	*	0	1	3	80
50-80	0	0	0	0	*	*
35-50	0	0	0	0	*	1
20-35	0	0	0	0	*	2
10-20	0	0	0	*	*	2
5-10	0	0	0	*	1	1
3-5	0	0	0	*	0	*
1.5-3	0	0	0	0	*	0
0-1.5	0	0	0	0	0	0

1426

8

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	*	0	*	1	4	71
50-80	0	0	0	0	*	*
35-50	0	0	0	*	*	1
20-35	0	0	0	*	1	5
10-20	0	0	0	1	2	7
5-10	0	0	0	*	1	4
3-5	0	0	0	*	*	1
1.5-3	0	*	0	0	*	*
0-1.5	0	0	*	*	0	*

1398

9

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	*	1	11	59
50-80	0	0	0	0	*	*
35-50	0	0	0	*	*	1
20-35	0	0	0	*	2	4
10-20	*	0	*	1	4	8
5-10	0	0	*	1	2	3
3-5	0	0	*	*	1	*
1.5-3	0	0	*	*	*	*
0-1.5	*	0	0	*	*	*

2134

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	5	77
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	1
20-35	0	0	0	0	2	4
10-20	0	0	0	0	4	2
5-10	0	0	0	3	0	1
3-5	0	0	0	1	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

114

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	2	80
50-80	0	0	0	0	0	2
35-50	0	0	0	0	4	2
20-35	0	0	0	4	0	8
10-20	0	0	0	0	2	13
5-10	0	0	0	0	2	2
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

53

15

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	2	4	54
50-80	0	0	0	0	0	0
35-50	0	0	0	0	4	4
20-35	0	0	0	0	2	0
10-20	0	0	0	2	2	7
5-10	0	0	0	7	0	6
3-5	0	2	0	0	2	2
1.5-3	0	0	0	0	0	2
0-1.5	0	0	0	0	0	2

66

16

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	1	6	59
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	0
20-35	0	0	0	0	2	2
10-20	0	0	0	1	3	11
5-10	0	0	1	1	7	6
3-5	0	0	0	1	2	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

196

17

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	1	3	65
50-80	0	0	0	0	0	*
35-50	0	0	0	0	0	1
20-35	0	0	*	*	2	5
10-20	0	0	0	*	2	11
5-10	0	0	0	*	1	6
3-5	0	*	0	0	0	*
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

237

18

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	6	66
50-80	0	0	0	0	0	3
35-50	0	0	0	0	0	8
20-35	0	0	0	1	1	3
10-20	0	0	0	2	2	3
5-10	0	0	1	2	1	2
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

132

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	3	0	0	6	66
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	1
20-35	0	0	0	0	0	1
10-20	0	0	0	0	0	15
5-10	0	0	0	0	0	3
3-5	0	0	3	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	1	0	0

67

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	*	0	0	*	2	81
50-80	0	0	0	0	0	*
35-50	0	0	0	0	0	1
20-35	0	0	0	*	*	2
10-20	*	0	0	*	1	5
5-10	0	*	*	*	2	2
3-5	0	0	0	*	*	*
1.5-3	0	0	0	0	*	0
0-1.5	0	0	0	*	0	0

704

24

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	2	80
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	7
20-35	0	0	0	0	0	0
10-20	0	0	0	0	0	0
5-10	0	0	0	0	0	13
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

15

25

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	2	49
50-80	0	0	0	0	0	2
35-50	0	0	0	0	0	9
20-35	0	0	0	0	2	15
10-20	0	0	0	0	0	17
5-10	0	0	0	2	2	0
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

47

26

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	4	53
50-80	0	0	0	0	1	4
35-50	0	0	0	0	1	13
20-35	1	0	0	1	0	7
10-20	0	0	0	1	1	11
5-10	0	0	0	0	0	3
3-5	0	0	0	0	0	2
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

197

27

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	1	7	62
50-80	0	0	0	0	1	1
35-50	0	0	0	0	0	4
20-35	0	0	0	0	1	1
10-20	0	0	0	0	1	15
5-10	0	0	0	0	2	4
3-5	0	0	0	1	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

143

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	2	36
50-80	0	0	0	0	0	3
35-50	0	0	0	0	2	15
20-35	0	0	0	0	2	17
10-20	0	0	0	0	3	17
5-10	0	0	0	0	0	2
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

68

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	3	50
50-80	0	0	0	0	0	2
35-50	0	0	0	0	*	5
20-35	0	0	0	1	2	11
10-20	*	0	0	1	3	17
5-10	0	0	0	0	1	3
3-5	0	0	0	0	0	1
1.5-3	0	0	0	0	1	0
0-1.5	0	0	0	0	0	0

313

33

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	2	40
50-80	0	0	0	*	1	3
35-50	0	0	0	0	1	7
20-35	0	0	0	0	2	15
10-20	0	0	0	0	2	18
5-10	0	0	0	*	1	8
3-5	0	0	0	*	*	1
1.5-3	0	0	0	*	0	0
0-1.5	0	0	0	*	*	*

804

34

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	3	49
50-80	0	0	0	0	0	2
35-50	0	0	0	0	0	3
20-35	0	0	0	*	3	7
10-20	0	0	*	1	2	18
5-10	0	0	*	*	4	5
3-5	0	0	0	0	*	1
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	*	0

310

35

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	2	4	53
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	1
20-35	0	0	0	1	1	6
10-20	0	0	1	1	5	10
5-10	0	0	0	1	4	7
3-5	0	0	0	0	2	1
1.5-3	0	0	0	0	1	0
0-1.5	0	1	1	1	0	1

184

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	3	19	28
50-80	0	0	0	0	0	0
35-50	0	0	0	0	3	8
20-35	0	0	0	0	8	19
10-20	0	0	0	0	3	8
5-10	0	0	0	0	0	0
3-5	0	0	0	3	0	0
1.5-3	0	0	0	0	0	0
0-1.5	0	0	0	0	0	0

36

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	8	28
50-80	0	0	0	0	0	2
35-50	0	0	0	0	0	1
20-35	0	0	0	0	3	9
10-20	0	0	0	2	15	19
5-10	0	0	0	2	5	2
3-5	0	0	0	0	1	0
1.5-3	0	0	0	0	0	0
0-1.5	2	1	2	0	0	0

105

44

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	5	20
50-80	0	0	0	0	0	0
35-50	0	0	0	0	0	0
20-35	0	0	0	0	12	2
10-20	0	0	0	5	5	27
5-10	0	0	0	7	2	0
3-5	0	0	0	0	0	0
1.5-3	0	0	0	0	0	0
0-1.5	2	0	0	12	0	0

41

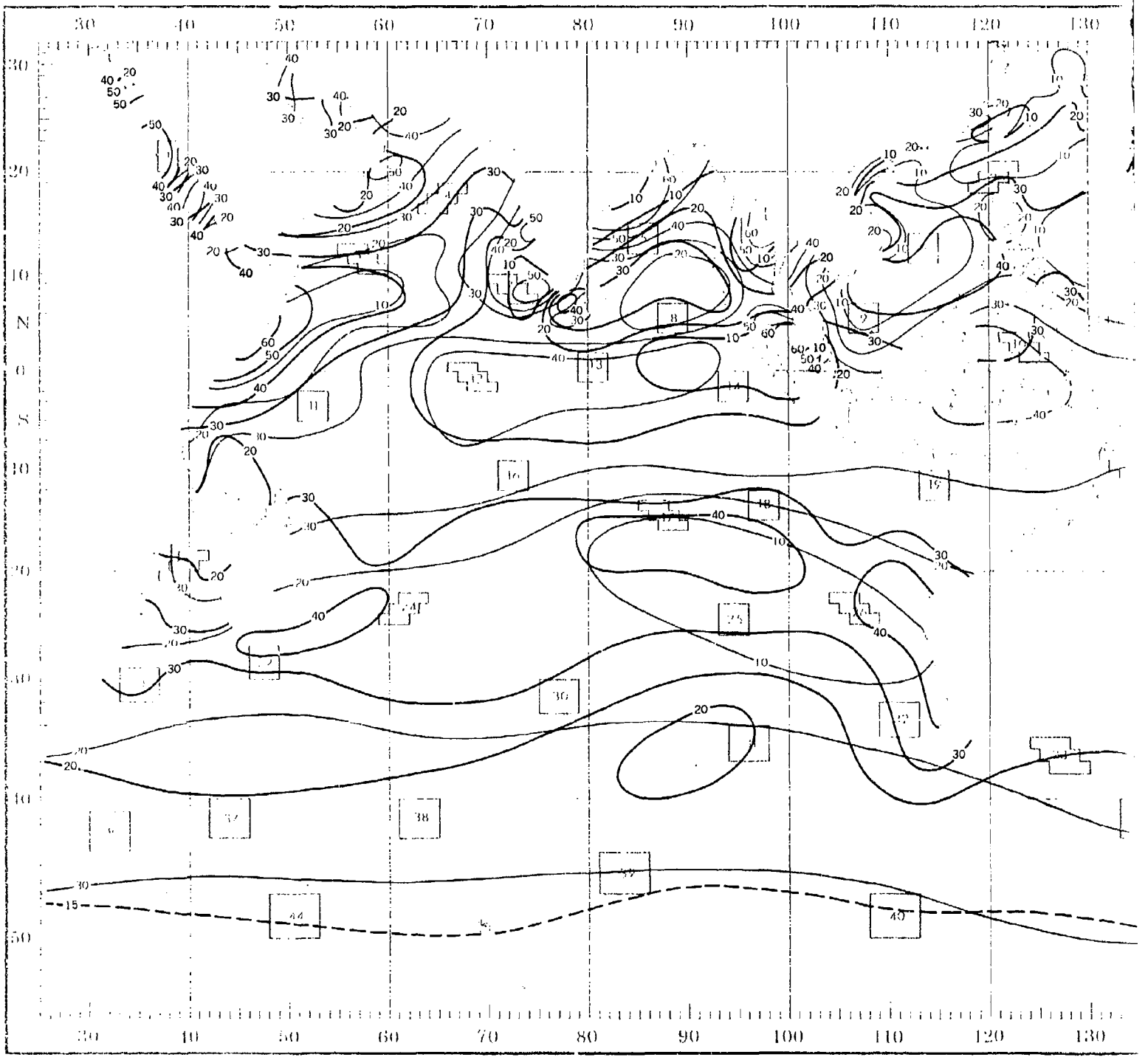
45

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-1	1-2	2-5	5-10	≥10
NC	0	0	0	0	17	17
50-80	0	0	0	0	1	1
35-50	0	0	0	0	1	1
20-35	0	0	1	1	12	11
10-20	0	0	0	*	11	10
5-10	0	0	0	0	2	3
3-5	0	0	1	*	1	0
1.5-3	0	0	0	0	0	0
0-1.5	2	1	1	*	*	0

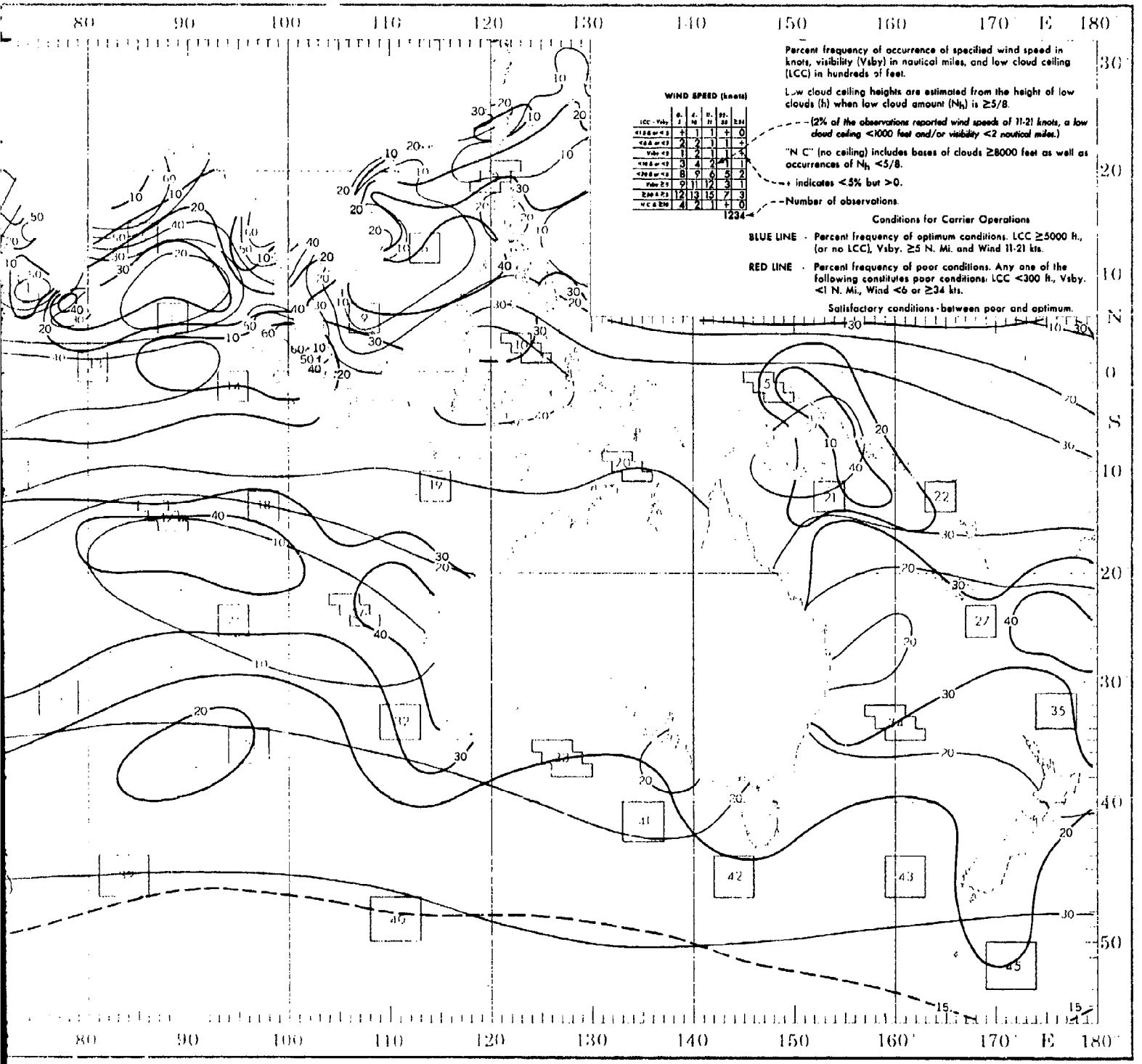
203

bjective compilation of available data for specified areas without regard to suspected biases.
(opposite page) are based on all available data subjectively adjusted where bias was evident.

FEBRUARY



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	1	0	0
<20 & OR <5	0	1	3	+	0
VSBY ≥5	8	31	53	7	0
≥80 & ≥5	8	28	48	6	0
NC & ≥10	7	25	45	5	0

996

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	+
<8 & OR <2	0	+	1	1	+
VSBY <2	0	+	+	+	0
<10 & OR <2	+	1	4	4	1
<20 & OR <5	+	2	12	12	1
VSBY ≥5	3	20	41	26	3
≥80 & ≥5	3	16	27	14	2
NC & ≥10	3	16	22	10	1

5383

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	+	1	0	0
<20 & OR <5	0	3	3	+	0
VSBY ≥5	3	53	42	1	0
≥80 & ≥5	3	48	38	1	0
NC & ≥10	3	47	34	1	0

1357

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	0	+	0
<20 & OR <5	+	1	+	+	0
VSBY ≥5	12	58	28	1	0
≥80 & ≥5	12	57	27	+	0
NC & ≥10	11	54	26	+	0

608

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	+	0	0
<20 & OR <5	1	1	1	0	0
VSBY ≥5	18	64	17	0	0
≥80 & ≥5	18	61	16	0	0
NC & ≥10	15	59	14	0	0

205

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	0
<8 & OR <2	+	+	1	1	0
VSBY <2	0	0	+	+	0
<10 & OR <2	+	1	4	2	+
<20 & OR <5	+	2	12	5	+
VSBY ≥5	2	26	57	13	+
≥80 & ≥5	1	23	42	7	+
NC & ≥10	1	22	36	5	+

4491

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	9	2	0	0
<20 & OR <5	0	19	6	0	0
VSBY ≥5	11	48	41	0	0
≥80 & ≥5	11	28	33	0	0
NC & ≥10	11	28	33	0	0

54

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	0	0	0
<20 & OR <5	0	3	2	0	0
VSBY ≥5	8	63	29	0	0
≥80 & ≥5	8	54	23	0	0
NC & ≥10	8	48	22	0	0

107

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	1	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	1	0	0
<20 & OR <5	1	7	1	+	0
VSBY ≥5	13	71	15	+	0
≥80 & ≥5	12	62	13	0	0
NC & ≥10	12	59	12	0	0

372

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	1	0	0
<20 & OR <5	1	9	1	0	0
VSBY ≥5	20	60	16	1	0
≥80 & ≥5	16	51	14	1	0
NC & ≥10	14	49	13	1	0

112

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	0	0
<20 & OR <5	2	13	4	2	0
VSBY ≥5	13	63	19	2	0
≥80 & ≥5	10	40	15	0	0
NC & ≥10	10	38	13	0	0

52

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<8 & OR <2	0	4	2	2	0
VSBY <2	0	0	0	2	0
<10 & OR <2	0	13	6	2	0
<20 & OR <5	0	23	9	2	0
VSBY ≥5	19	49	19	0	0
≥80 & ≥5	19	30	8	0	0
NC & ≥10	19	26	8	0	0

63

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	5	2	7	2	0
<20 & OR <5	5	5	16	2	0
VSBY ≥5	9	40	44	5	0
≥80 & ≥5	5	37	28	2	0
NC & ≥10	5	35	16	2	0

43

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	2	5	2	0
<20 & OR <5	2	5	10	2	1
VSBY ≥5	18	37	37	4	0
≥80 & ≥5	16	32	27	2	0
NC & ≥10	15	30	25	2	0

184

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	1	0	0
<8 & OR <2	<	+	2	+	0
VSBY <2	0	+	1	0	0
<10 & OR <2	2	5	3	1	0
<20 & OR <5	4	9	10	4	0
VSBY ≥5	20	47	20	3	0
≥80 & ≥5	16	35	17	+	0
NC & ≥10	16	33	15	+	0

234

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<8 & OR <2	0	4	3	0	0
VSBY <2	0	3	3	0	0
<10 & OR <2	0	6	4	0	0
<20 & OR <5	0	16	9	0	0
VSBY ≥5	4	60	28	0	0
≥80 & ≥5	4	45	22	0	0
NC & ≥10	4	40	21	0	0

87

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	+	0
<8 & OR <2	0	1	+	+	+
VSBY <2	0	+	0	+	+
<10 & OR <2	+	2	2	1	+
<20 & OR <5	1	5	5	2	+
VSBY ≥5	16	46	31	5	+
≥80 & ≥5	16	41	24	3	+
NC & ≥10	16	40	23	3	+

696

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	13	0
<20 & OR <5	0	0	0	13	0
VSBY ≥5	7	47	33	13	0
≥80 & ≥5	7	47	27	0	0
NC & ≥10	7	47	27	0	0

15

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	3	+
<20 & OR <5	+	5	9	6	1
VSBY ≥5	4	39	40	15	1
≥80 & ≥5	4	32	29	6	+
NC & ≥10	4	30	27	7	+

420

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	2	0
<20 & OR <5	0	6	10	2	0
VSBY ≥5	0	39	59	2	0
≥80 & ≥5	0	33	47	0	0
NC & ≥10	0	31	43	0	0

51

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	8	0	0
<20 & OR <5	0	9	19	0	0
VSBY ≥5	5	41	50	3	0
≥80 & ≥5	3	23	27	2	0
NC & ≥10	3	23	27	2	0

64

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	0	0
<20 & OR <5	4	17	4	0	0
VSBY ≥5	11	50	30	9	0
≥80 & ≥5	2	19	17	6	0
NC & ≥10	2	15	15	6	0

54

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<8 & OR <2	0	+	1	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	4	+	0
<20 & OR <5	1	5	15	6	0
VSBY ≥5	2	31	50	16	0
≥80 & ≥5	1	18	28	7	0
NC & ≥10	+	17	28	7	0

309

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<8 & OR <2	+	1	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	4	+	0
<20 & OR <5	1	13	13	2	+
VSBY ≥5	6	43	42	7	0
≥80 & ≥5	4	20	19	4	0
NC & ≥10	3	18	16	3	0

785

37

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	3	0	5	8	0
<8 & OR <2	3	0	5	8	0
VSBY <2	3	0	5	8	0
<10 & OR <2	3	3	5	10	0
<20 & OR <5	5	5	15	10	0
VSBY ≥5	8	23	31	21	0
≥80 & ≥5	5	15	6	3	0
NC & ≥ 0	5	13	5	3	0

39

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	4	0	2	2	0
VSBY <2	0	0	0	2	0
<10 & OR <2	4	2	8	2	0
<20 & OR <5	8	8	8	8	0
VSBY ≥5	10	38	26	16	0
≥80 & ≥5	0	24	16	6	0
NC & ≥10	0	24	12	6	0

50

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	3	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	0	0	0
<20 & OR <5	0	3	15	0	0
VSBY ≥5	0	32	59	3	0
≥80 & ≥5	0	18	24	3	0
NC & ≥10	0	15	12	3	0

34

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without rega
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

LITY-WIND

FEBRUARY

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	0	+	0
<20 & OR <5	+	1	+	+	0
VSBY ≥5	12	59	28	1	0
≥60 & ≥5	12	57	27	+	0
NC & ≥10	11	54	26	+	0

608

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	+	0	0
<20 & OR <5	1	1	1	0	0
VSBY ≥5	18	64	17	0	0
≥60 & ≥5	18	61	16	0	0
NC & ≥10	15	59	14	0	0

205

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	0
<6 & OR <2	+	+	1	1	0
VSBY <2	0	0	+	+	0
<10 & OR <2	+	1	4	2	+
<20 & OR <5	+	2	12	6	+
VSBY ≥5	2	25	67	13	+
≥60 & ≥5	1	23	42	7	+
NC & ≥10	1	20	36	6	+

4491

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	+	+	+	0	0
VSBY <2	+	0	0	0	0
<10 & OR <2	+	1	+	0	0
<20 & OR <5	1	3	1	0	0
VSBY ≥5	21	68	10	+	0
≥60 & ≥5	20	63	9	+	0
NC & ≥10	19	61	9	+	0

1380

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<6 & OR <2	+	1	1	+	0
VSBY <2	0	+	+	+	0
<10 & OR <2	+	3	4	+	0
<20 & OR <5	1	8	8	+	0
VSBY ≥5	6	52	38	1	0
≥60 & ≥5	5	41	29	1	0
NC & ≥10	4	38	27	1	0

1391

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	+
<6 & OR <2	0	1	1	+	+
VSBY <2	0	+	+	+	+
<10 & OR <2	0	2	5	1	+
<20 & OR <5	+	6	14	2	+
VSBY ≥5	4	35	52	6	+
≥60 & ≥5	4	28	35	3	+
NC & ≥10	4	25	29	2	+

2126

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	1	0	0
<20 & OR <5	1	9	1	0	0
VSBY ≥5	20	60	16	1	0
≥60 & ≥5	16	61	14	1	0
NC & ≥10	14	49	13	1	0

112

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	0	0
<20 & OR <5	2	13	4	2	0
VSBY ≥5	13	63	19	2	0
≥60 & ≥5	10	40	15	0	0
NC & ≥10	10	38	13	0	0

52

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<6 & OR <2	0	4	2	2	0
VSBY <2	0	0	0	2	0
<10 & OR <2	0	13	6	2	0
<20 & OR <5	0	23	9	2	0
VSBY ≥5	19	49	19	0	0
≥60 & ≥5	19	30	8	0	0
NC & ≥10	19	28	8	0	0

53

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	1	2	1	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	3	7	7	1	0
<20 & OR <5	5	14	13	1	0
VSBY ≥5	18	52	24	3	0
≥60 & ≥5	14	36	12	2	0
NC & ≥10	12	35	10	1	0

190

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	0	+
VSBY <2	0	0	+	0	+
<10 & OR <2	0	1	6	1	+
<20 & OR <5	0	6	14	2	1
VSBY ≥5	1	39	50	6	1
≥60 & ≥5	1	31	34	3	0
NC & ≥10	1	29	33	3	0

237

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	1	0	0	0	0
VSBY <2	1	0	0	0	0
<10 & OR <2	2	2	2	0	0
<20 & OR <5	2	3	8	0	0
VSBY ≥5	5	45	44	1	0
≥60 & ≥5	3	40	33	1	0
NC & ≥10	3	33	29	0	0

126

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<6 & OR <2	0	4	3	0	0
VSBY <2	0	3	3	0	0
<10 & OR <2	0	6	4	0	0
<20 & OR <5	0	16	9	0	0
VSBY ≥5	4	60	28	0	0
≥60 & ≥5	4	45	22	0	0
NC & ≥10	4	40	21	0	0

67

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	+	0
<6 & OR <2	0	1	+	+	+
VSBY <2	0	+	0	+	+
<10 & OR <2	+	2	2	1	+
<20 & OR <5	1	6	6	2	+
VSBY ≥5	16	46	31	5	+
≥60 & ≥5	16	41	24	3	+
NC & ≥10	16	40	23	3	+

696

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	13	0
<20 & OR <5	0	0	0	13	0
VSBY ≥5	7	47	33	13	0
≥60 & ≥5	7	47	27	0	0
NC & ≥10	7	47	27	0	0

16

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	2	0
<20 & OR <5	0	2	11	6	2
VSBY ≥5	2	19	80	15	2
≥60 & ≥5	2	9	36	6	0
NC & ≥10	2	9	32	6	0

47

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	1	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	3	0	0
<20 & OR <5	0	6	10	2	0
VSBY ≥5	1	23	65	9	0
≥60 & ≥5	1	16	41	4	0
NC & ≥10	1	14	35	3	0

196

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	6	1	0
<20 & OR <5	1	2	15	6	0
VSBY ≥5	4	37	48	11	0
≥60 & ≥5	4	34	28	5	0
NC & ≥10	4	31	23	4	0

140

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	0	0
<20 & OR <5	4	17	4	0	0
VSBY ≥5	11	50	30	9	0
≥60 & ≥5	2	19	17	6	0
NC & ≥10	2	15	15	6	0

54

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	1	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	4	+	0
<20 & OR <5	1	5	15	6	0
VSBY ≥5	2	31	50	16	0
≥60 & ≥5	1	18	28	7	0
NC & ≥10	+	17	26	7	0

309

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<6 & OR <2	+	1	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	4	1	+
<20 & OR <5	1	13	13	2	+
VSBY ≥5	6	43	42	7	0
≥60 & ≥5	4	20	19	4	0
NC & ≥10	3	18	16	3	0

785

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	1	+	+
VSBY <2	0	0	0	+	0
<10 & OR <2	0	4	4	3	+
<20 & OR <5	+	11	16	5	+
VSBY ≥5	4	36	48	10	+
≥60 & ≥5	3	20	27	4	0
NC & ≥10	3	18	25	4	0

303

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	1	0
<6 & OR <2	1	3	2	1	0
VSBY <2	0	1	1	1	0
<10 & OR <2	1	7	7	3	0
<20 & OR <5	2	11	17	4	1
VSBY ≥5	6	32	47	7	1
≥60 & ≥5	3	19	32	2	1
NC & ≥10	3	18	29	2	1

184

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	3	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	0	0	0
<20 & OR <5	0	3	15	0	0
VSBY ≥5	0	32	59	3	0
≥60 & ≥5	0	18	24	3	0
NC & ≥10	0	15	12	3	0

34

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	1	2	0
<6 & OR <2	0	2	1	3	0
VSBY <2	0	2	1	2	0
<10 & OR <2	0	4	8	5	0
<20 & OR <5	4	10	25	12	1
VSBY ≥5	7	17	48	17	2
≥60 & ≥5	3	9	18	6	1
NC & ≥10	2	9	12	5	1

104

44

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	7	7
<6 & OR <2	0	0	0	7	7
VSBY <2	0	0	0	2	0
<10 & OR <2	0	0	5	12	7
<20 & OR <5	2	7	7	29	15
VSBY ≥5	2	5	12	39	15
≥60 & ≥5	0	2	5	10	7
NC & ≥10	0	2	5	7	5

41

45

WIND SPEED (KNOTS)

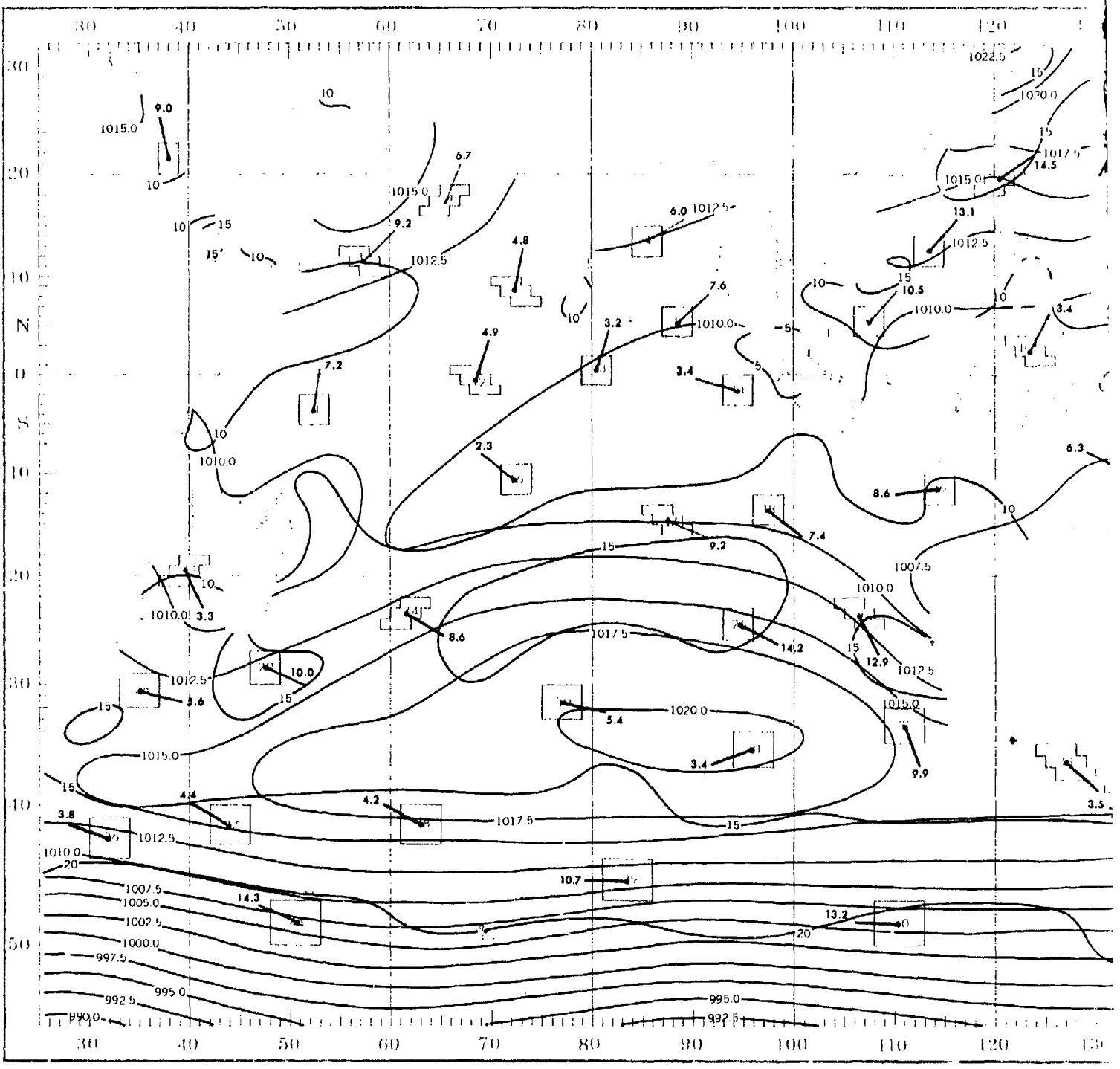
LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	2	2	0
<6 & OR <2	0	2	4	3	0
VSBY <2	0	2	2	3	0
<10 & OR <2	0	3	8	4	1
<20 & OR <5	1	5	12	17	4
VSBY ≥5	1	12	40	33	8
≥60 & ≥5	1	5	22	10	1
NC & ≥10	1	3	9	5	0

198

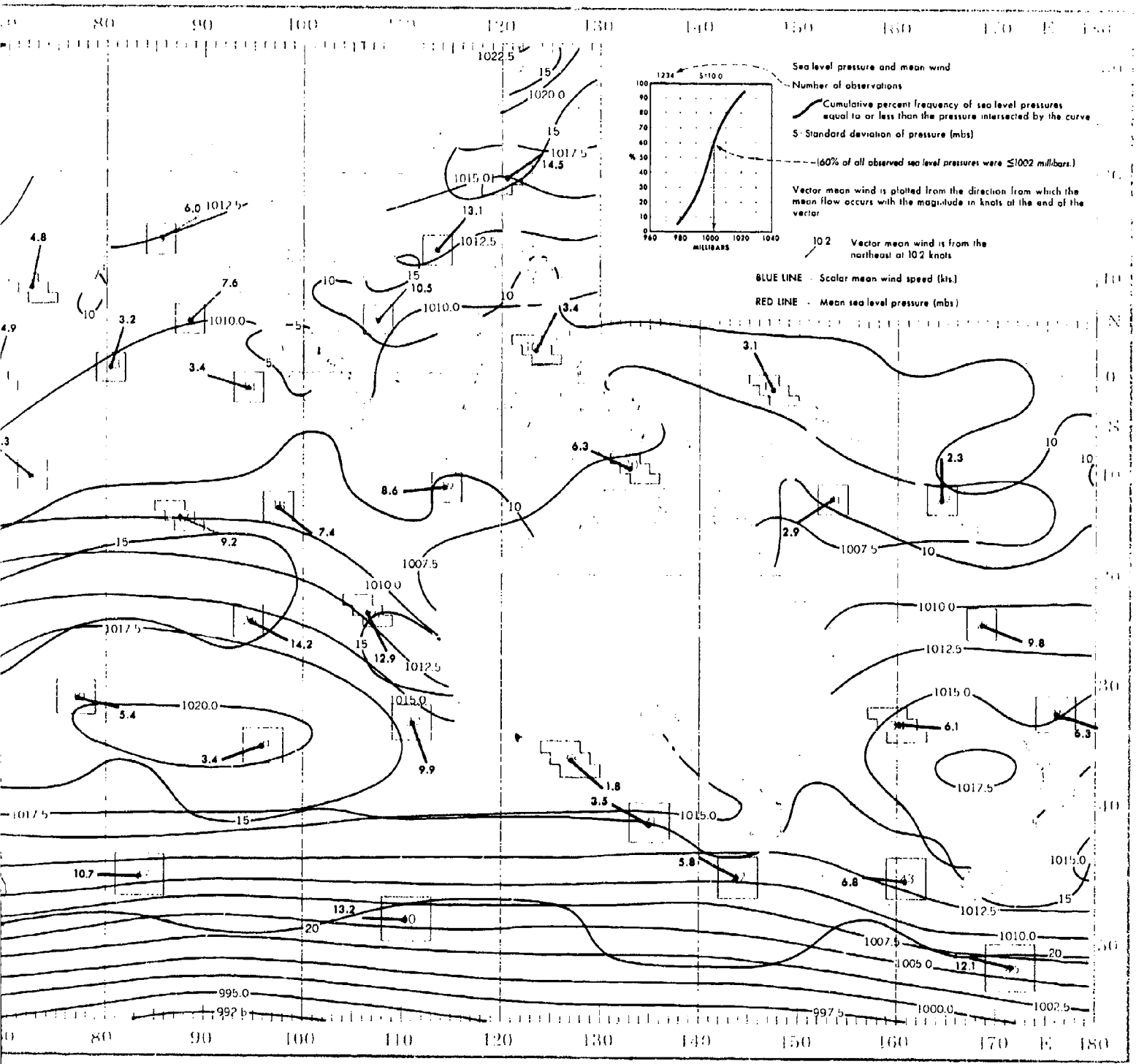
ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

FEBRUARY

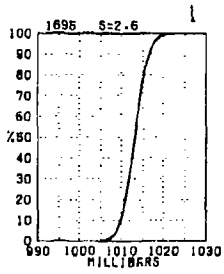
SEA LEVEL PR

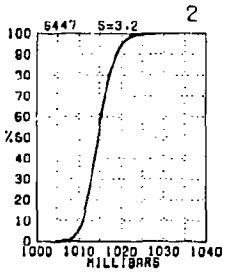


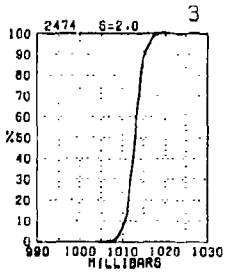
SEA LEVEL PRESSURE AND MEAN WIND

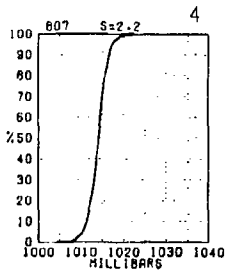


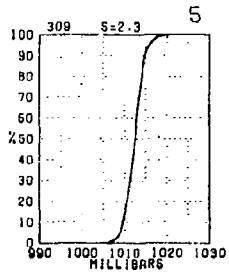
SEA LEVEL PRESSURE

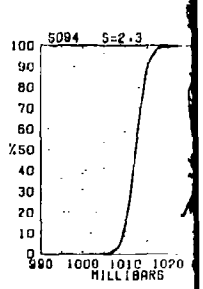


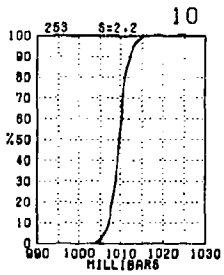


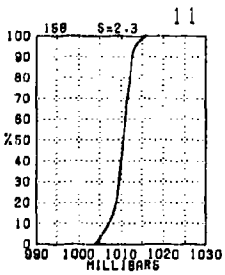


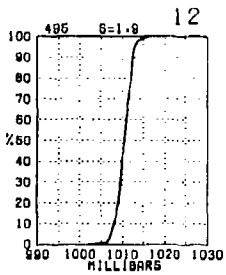


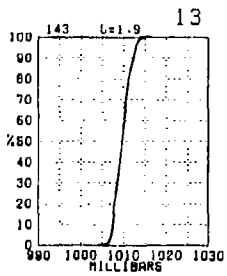


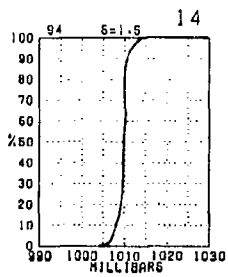


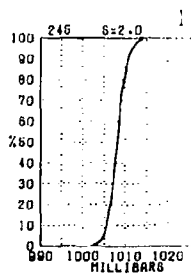


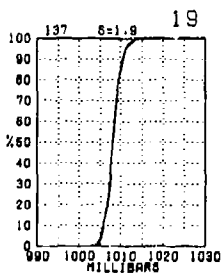


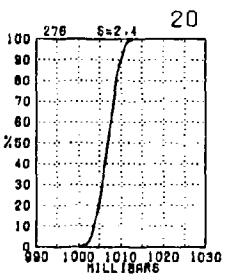


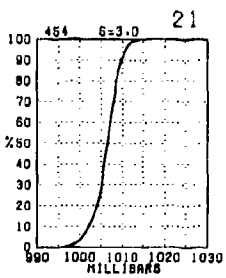


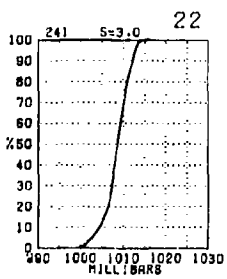


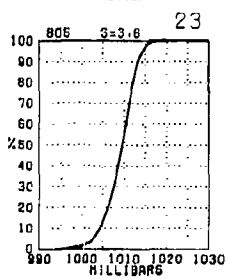












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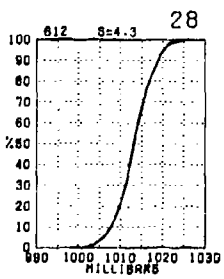

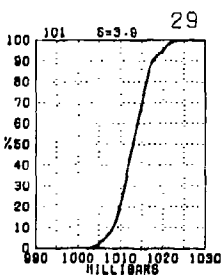

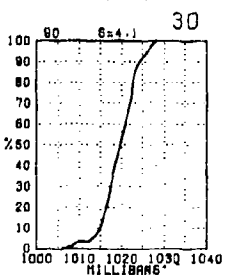

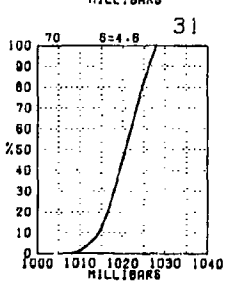

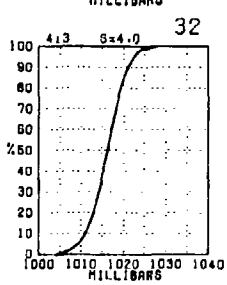

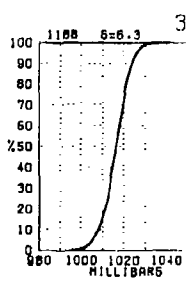

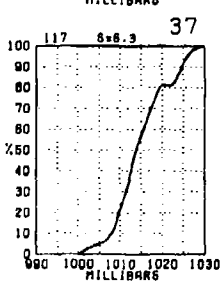

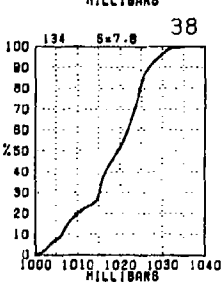

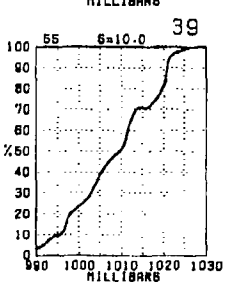

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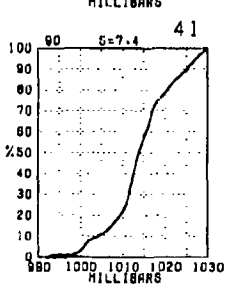
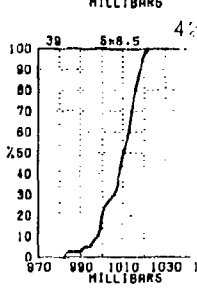
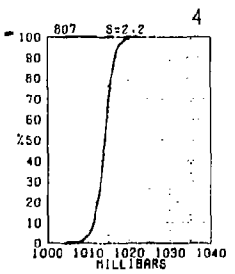
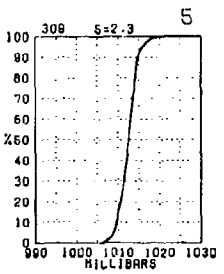


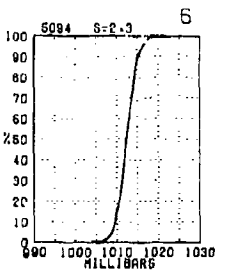


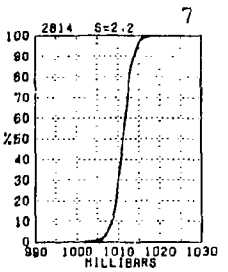
Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

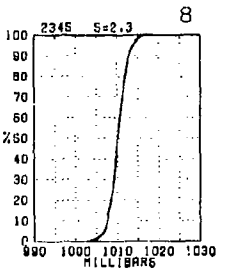
FEBRUARY

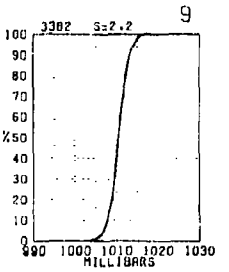


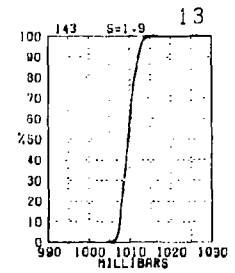


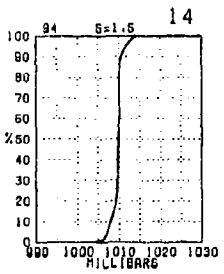


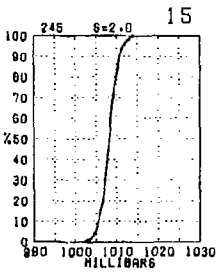


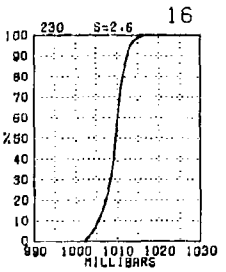


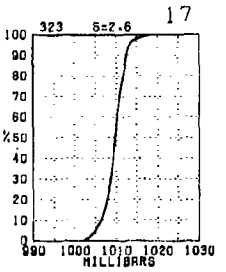


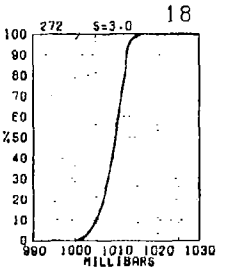


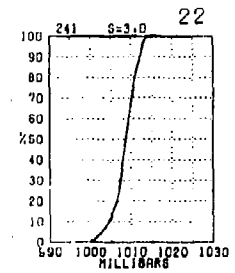


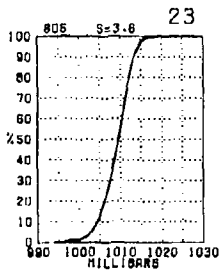












24

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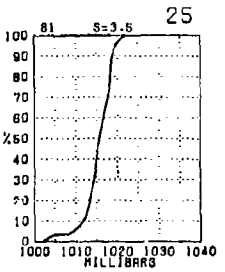

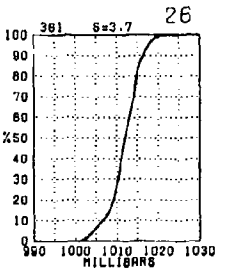

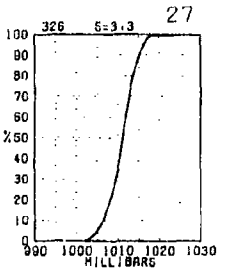

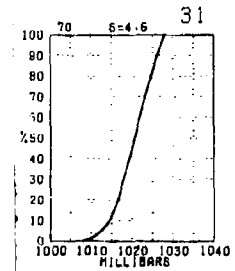

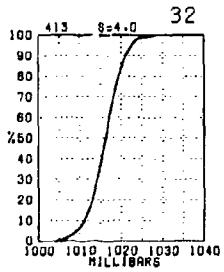

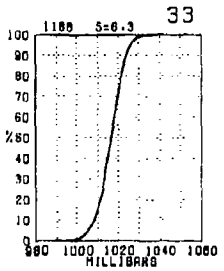

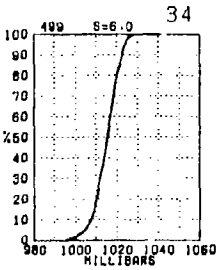

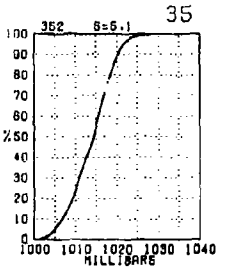

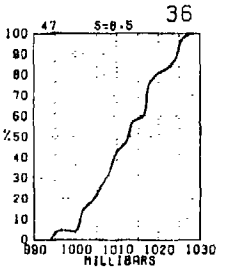

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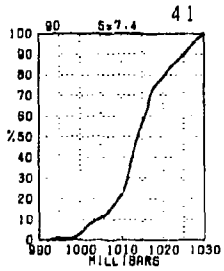

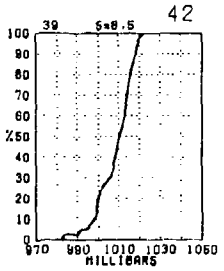

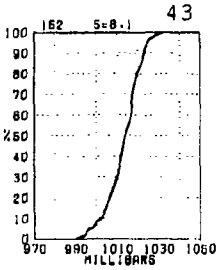

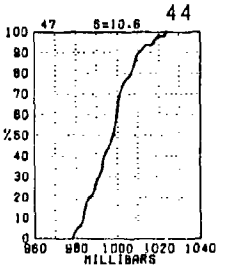

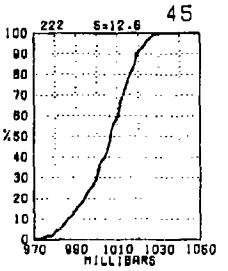

ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

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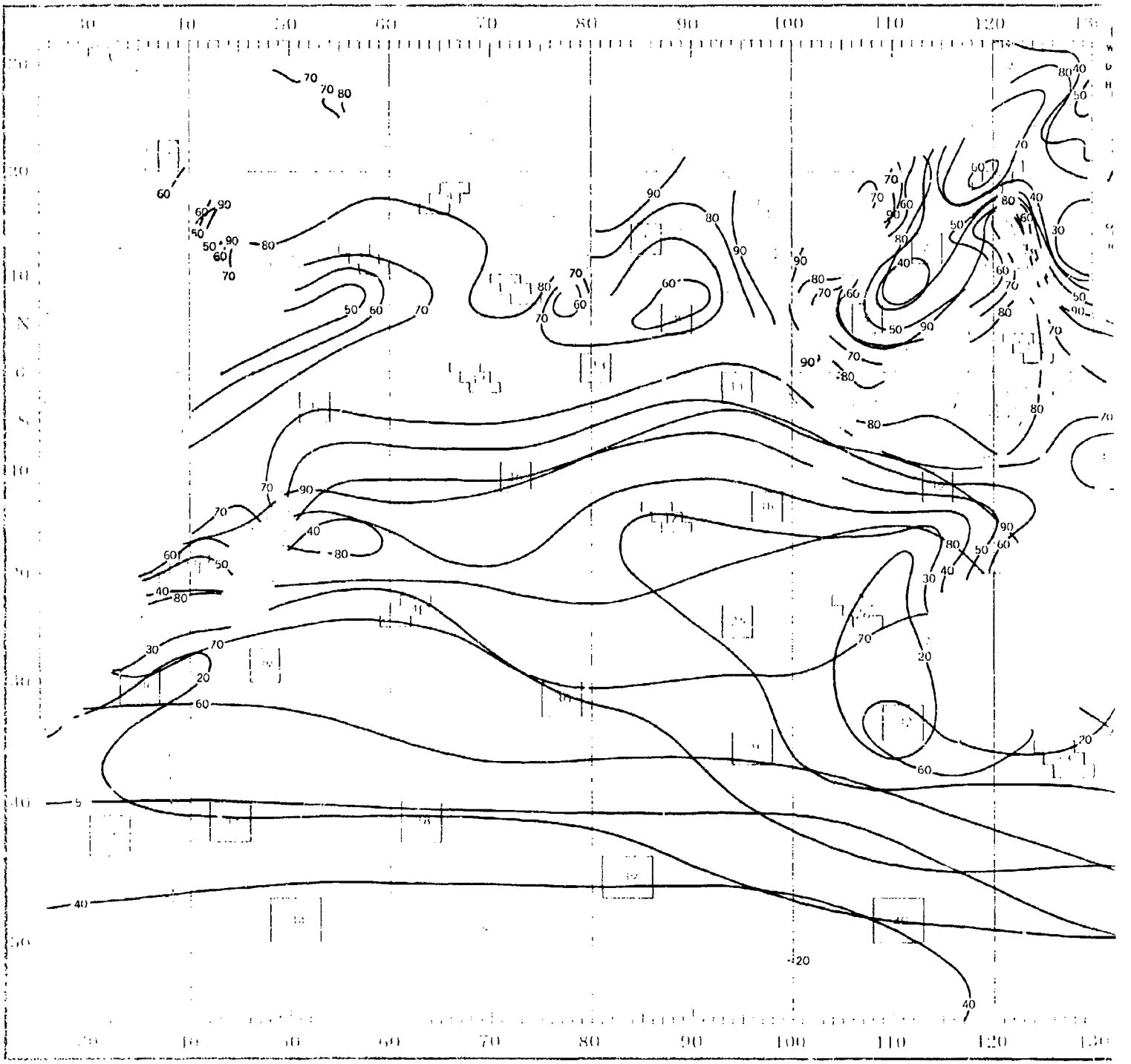
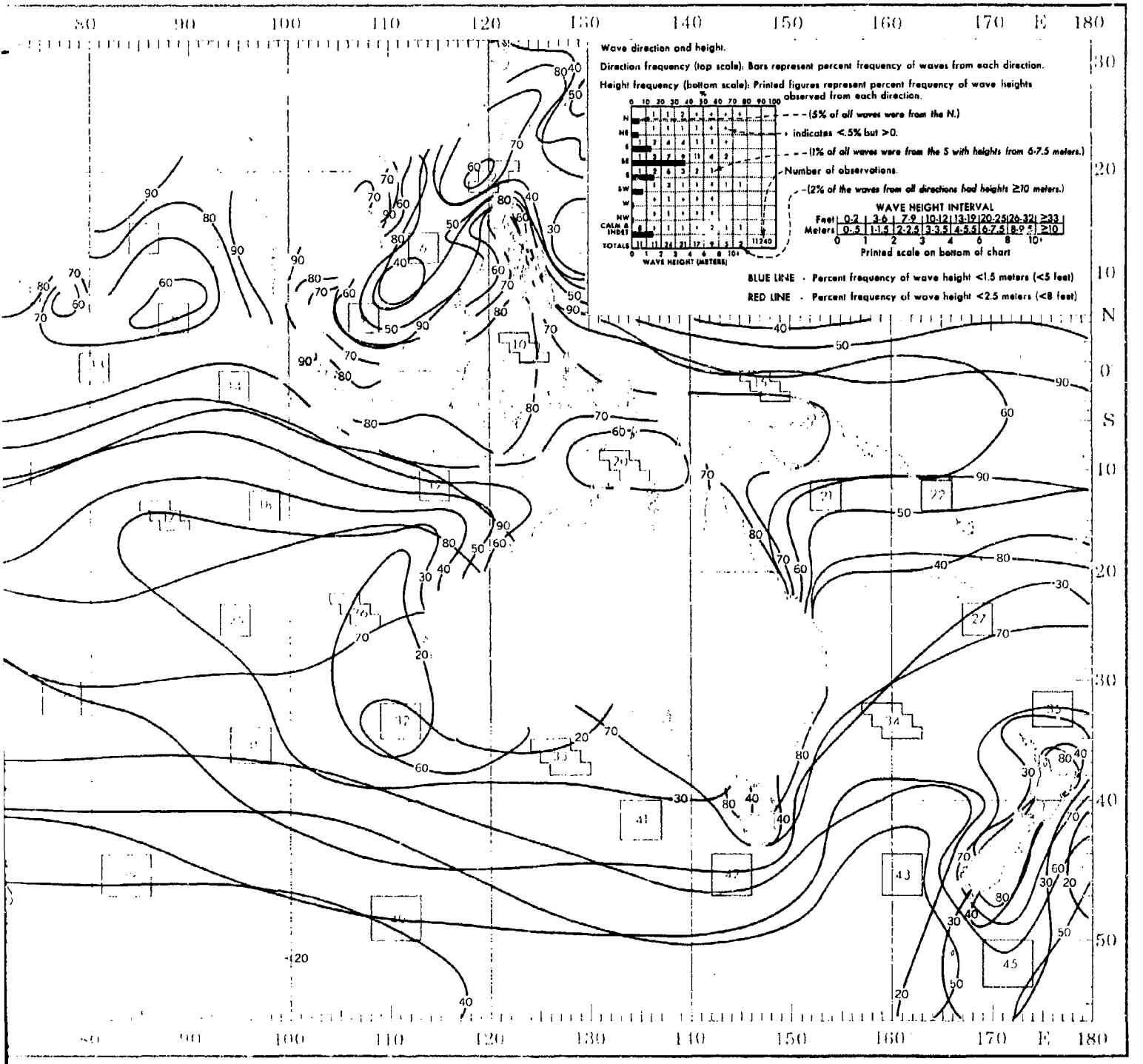
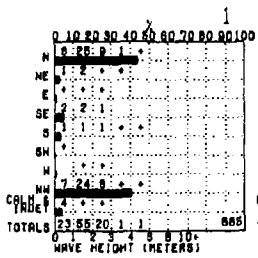
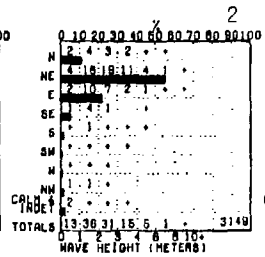


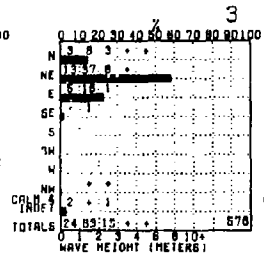
WAVES (<1.5 AND <2.5 METERS)

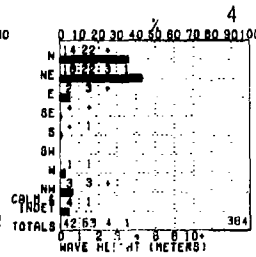


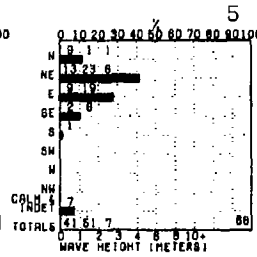
WAVE DIRECTION AND HEIGHT

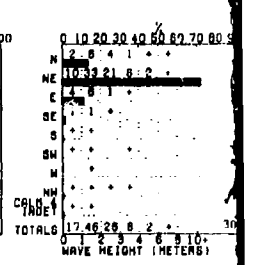


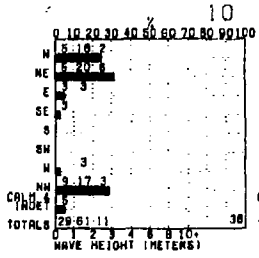


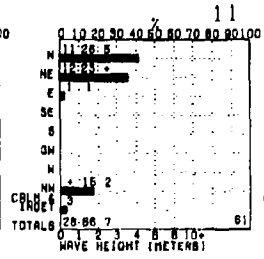


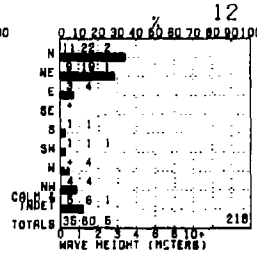


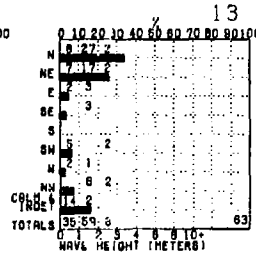


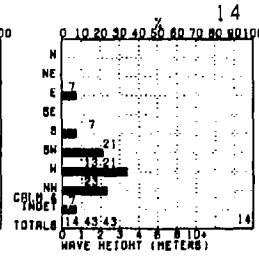


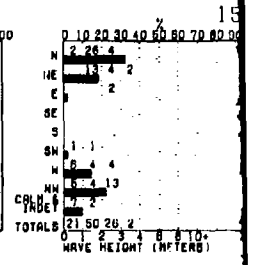


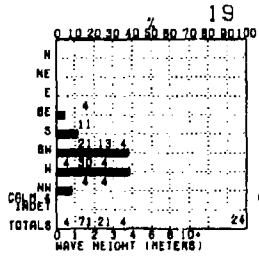


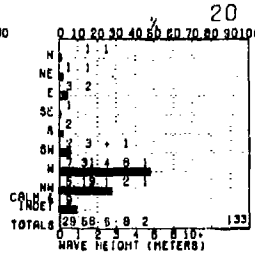


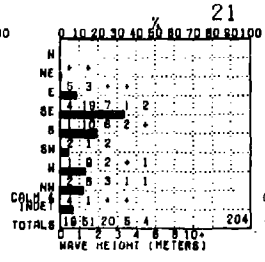


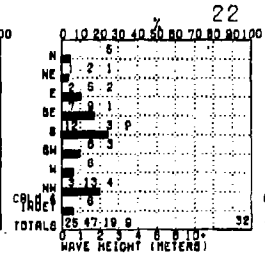


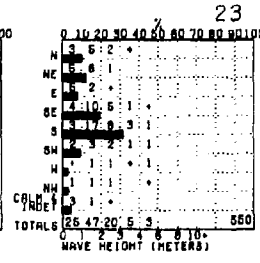






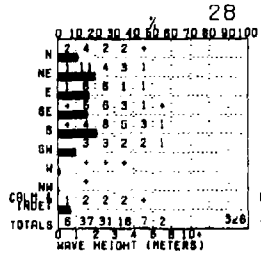


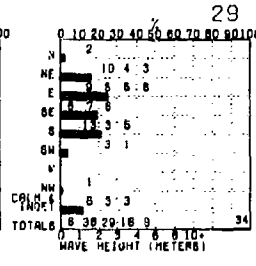


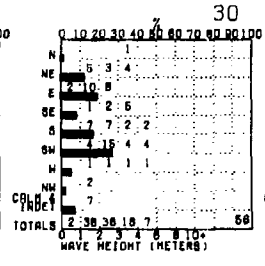


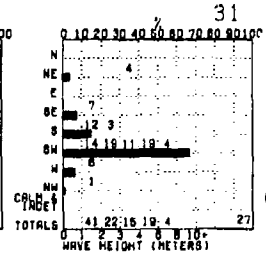
24

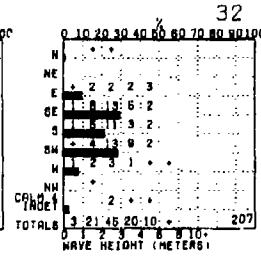
INSUFFICIENT DATA

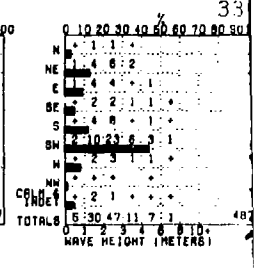






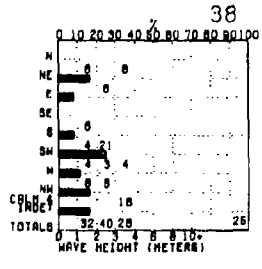






37

INSUFFICIENT DATA

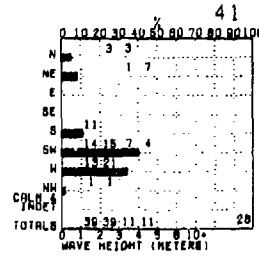


39

INSUFFICIENT DATA

40

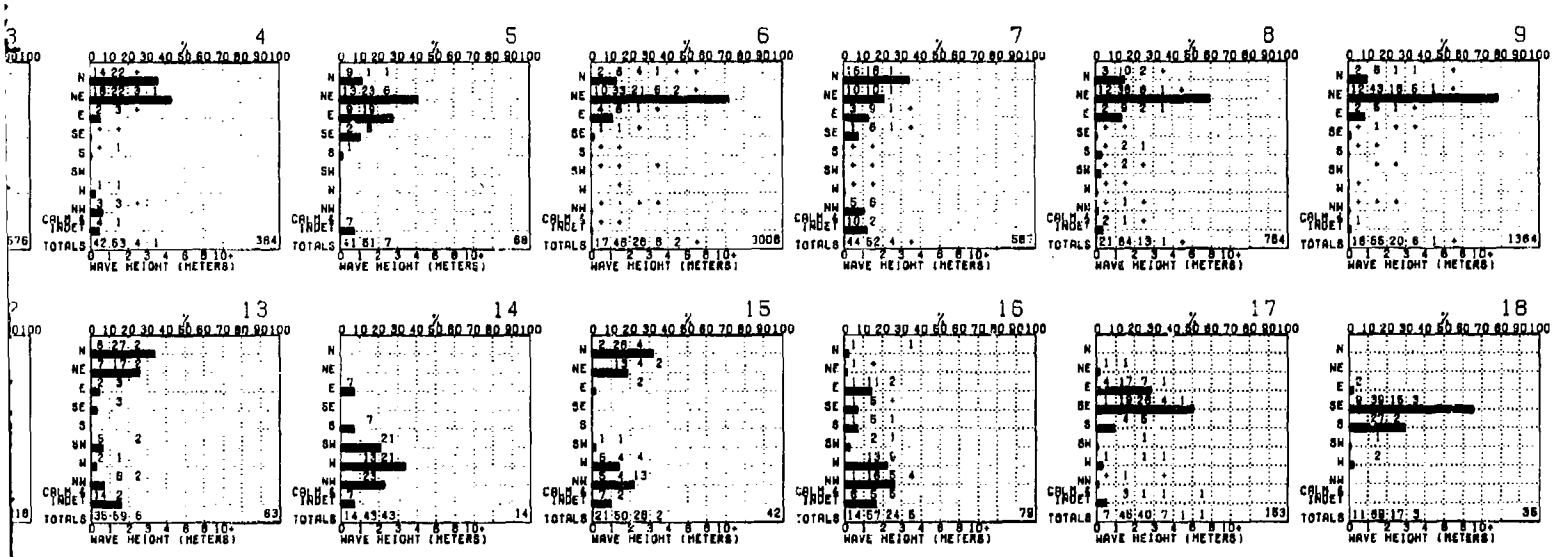
INSUFFICIENT DATA

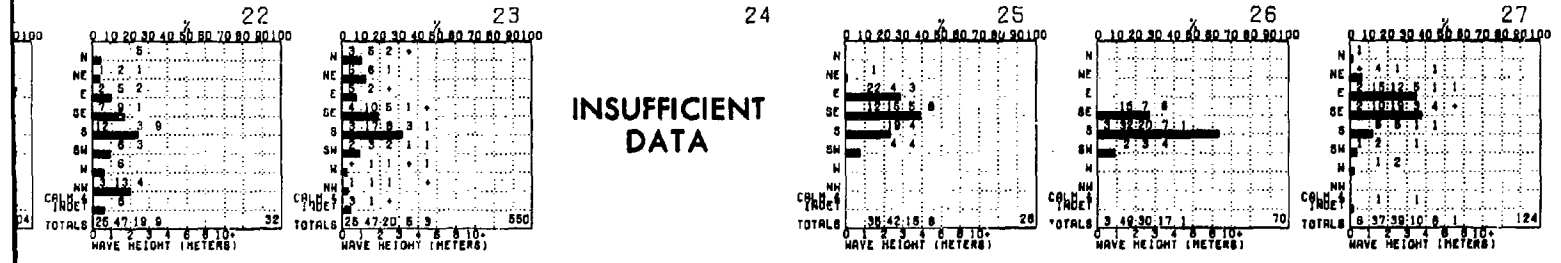


42

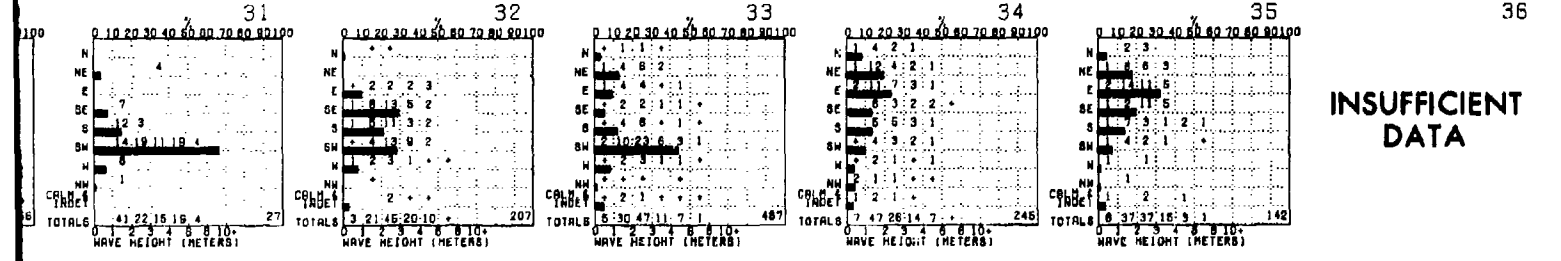
INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The **isopleth** analyses (opposite page) are based on all available data subjectively adjust

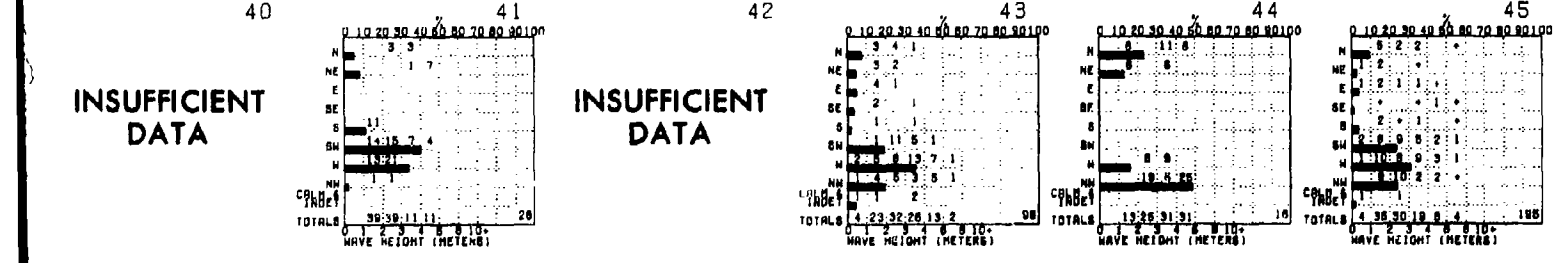




INSUFFICIENT DATA



INSUFFICIENT DATA



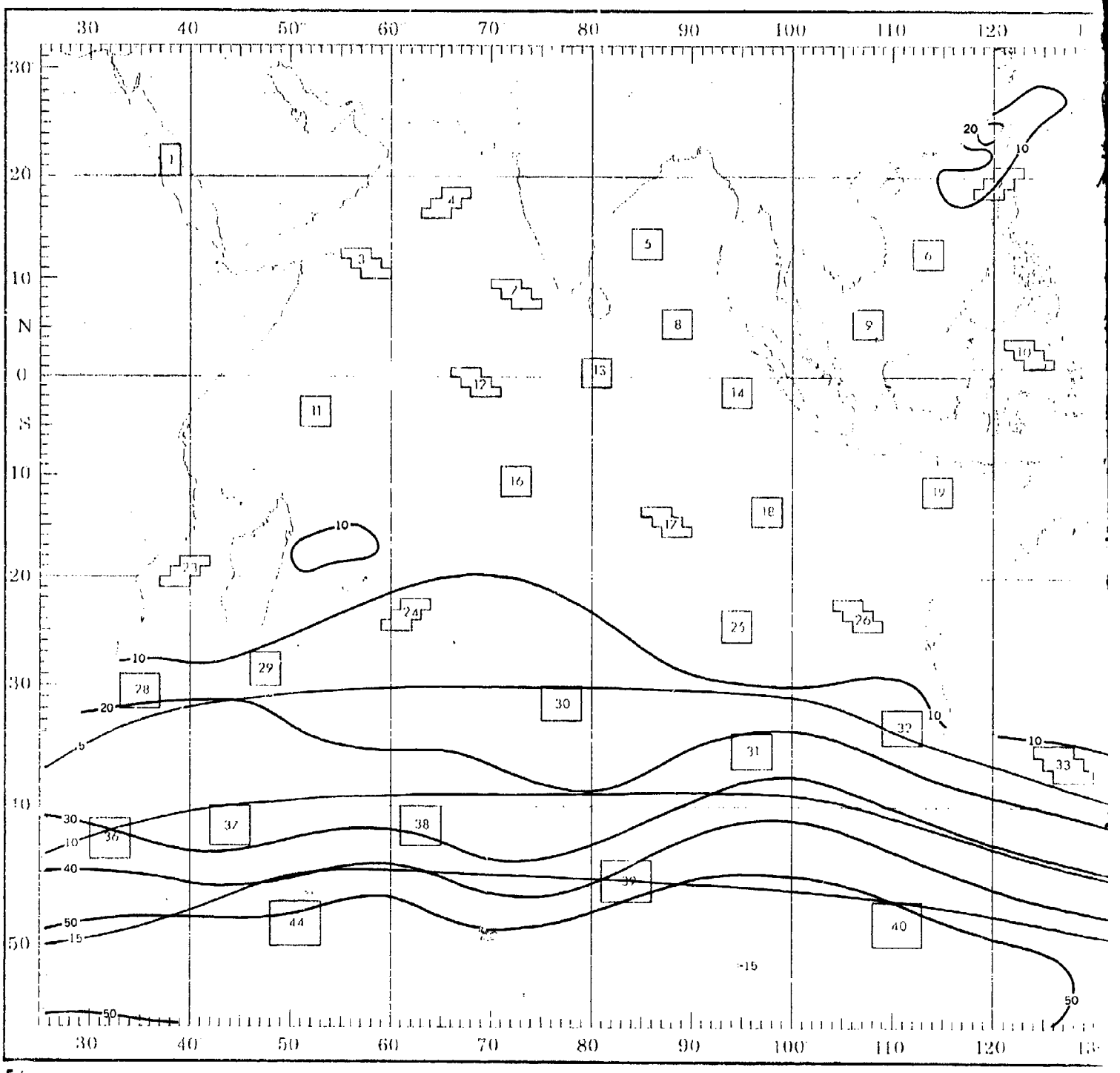
INSUFFICIENT DATA

INSUFFICIENT DATA

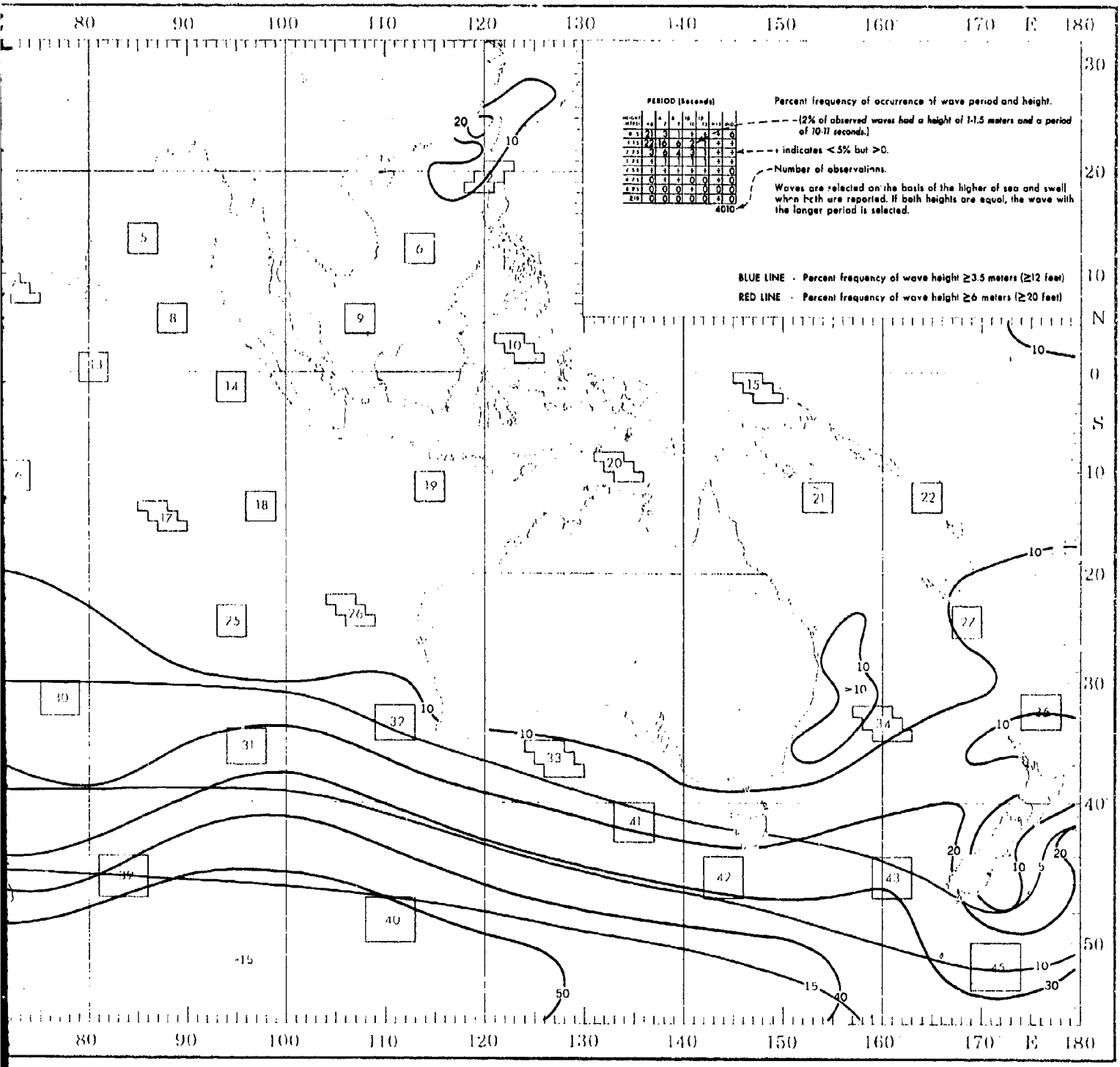
bjective compilation of available data for specified areas without regard to suspected biases.
opposite page) are based on all available data subjectively adjusted where bias was evident.

FEBRUARY

WAVE



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	17	1	+	0	0	0	7
1-1.5	30	18	2	1	+	0	5
2-2.5	5	9	3	+	+	0	2
3-3.5	0	1	+	+	0	0	+
4-5.5	0	+	+	+	0	0	+
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

912

2

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	11	1	+	+	0	0	2
1-1.5	16	14	4	+	+	+	1
2-2.5	3	11	12	4	1	+	+
3-3.5	1	3	5	3	2	1	+
4-5.5	+	1	1	1	1	1	+
6-7.5	0	+	+	1	+	+	0
8-9.5	0	0	+	+	+	0	0
>10	0	0	0	0	0	0	0

3219

3

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	19	2	+	0	0	0	8
1-1.5	34	17	4	+	0	0	5
2-2.5	3	4	1	+	0	0	3
3-3.5	+	0	0	+	0	0	0
4-5.5	0	0	0	0	+	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

598

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	36	1	+	0	0	0	8
1-1.5	33	10	2	+	0	0	3
2-2.5	1	2	1	0	0	0	0
3-3.5	1	+	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

397

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	39	1	0	0	0	0	11
1-1.5	27	10	4	0	0	0	2
2-2.5	1	5	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

82

PERIOD (SECOND

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>1
0-1.5	15	2	+	+	0	
1-1.5	21	18	5	+	+	
2-2.5	3	9	10	3	+	
3-3.5	+	2	3	2	1	
4-5.5	+	+	+	1	1	
6-7.5	0	0	+	+	+	
8-9.5	0	0	0	0	0	
>10	0	0	0	0	0	

10

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	25	0	0	0	0	0	8
1-1.5	30	15	10	0	0	0	3
2-2.5	3	3	3	3	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

11

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	29	2	0	0	0	0	3
1-1.5	32	17	8	2	2	0	3
2-2.5	2	2	3	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

66

12

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	29	4	0	0	0	0	7
1-1.5	26	17	6	2	0	+	8
2-2.5	1	2	+	+	0	0	1
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

236

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	15	2	0	5	0	0	15
1-1.5	15	25	11	0	5	0	2
2-2.5	2	2	2	2	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

65

14

INSUFFICIENT DATA

19

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	46	13	0	8	4	0	0
2-2.5	0	4	13	4	0	0	0
3-3.5	0	0	0	4	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

24

20

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	23	1	0	0	0	0	9
1-1.5	27	21	2	0	0	0	1
2-2.5	2	2	1	0	0	0	0
3-3.5	0	4	3	1	0	0	0
4-5.5	0	1	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

142

21

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	18	2	0	0	0	0	8
1-1.5	22	15	9	1	0	0	1
2-2.5	2	8	6	2	0	1	+
3-3.5	0	2	1	0	+	+	+
4-5.5	0	+	2	1	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

218

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	14	11	0	0	0	0	6
1-1.5	20	0	0	0	8	0	17
2-2.5	8	9	0	0	0	0	9
3-3.5	0	8	3	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	22	2	1	+	0	0	4
1-1.5	22	12	4	2	2	+	3
2-2.5	5	7	4	1	+	1	1
3-3.5	1	1	2	+	+	0	0
4-5.5	+	1	2	+	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

574

INSUFFICIEN DATA

28

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	0	0	0	0	2
1-1.5	16	8	6	2	1	+	4
2-2.5	5	11	6	4	1	+	3
3-3.5	2	4	5	2	1	+	5
4-5.5	+	1	2	2	1	0	2
6-7.5	0	0	0	1	0	+	1
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

330

29

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	0	0	0	0
1-1.5	24	3	3	3	0	0	8
2-2.5	8	8	9	8	0	0	3
3-3.5	0	8	9	0	0	0	3
4-5.5	0	0	3	3	3	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

34

30

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	3
1-1.5	10	9	0	3	2	0	12
2-2.5	7	10	12	0	2	2	2
3-3.5	0	9	7	2	0	0	0
4-5.5	0	2	3	2	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

58

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	4
1-1.5	14	14	11	0	0	0	0
2-2.5	0	4	7	0	11	0	0
3-3.5	0	4	0	4	7	0	0
4-5.5	0	4	4	7	0	4	0
6-7.5	0	0	4	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	1
1-1.5	7	4	2	1	1	0	5
2-2.5	3	9	20	6	2	0	5
3-3.5	+	2	10	2	3	1	1
4-5.5	0	+	3	2	1	3	+
6-7.5	0	0	0	0	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

207

PERIOD (SECONDS

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	1	+	0	0		
1-1.5	7	7	7	3	1		
2-2.5	3	12	18	8	4		
3-3.5	1	2	4	1	2		
4-5.5	0	1	1	2	1		
6-7.5	0	+	+	+	+		
8-9.5	0	0	0	0	0		
>10	0	0	0	0	0		

37

INSUFFICIENT DATA

38

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	12	16	3	4	0	0	0
2-2.5	0	20	8	4	0	0	8
3-3.5	0	8	4	0	0	0	16
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

25

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	14	14	0	11	0	0	0
2-2.5	0	14	11	14	0	0	0
3-3.5	0	0	4	4	0	0	4
4-5.5	0	0	4	0	0	0	7
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

PERIOD (SECONDS

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	
1-1.5	0	18	0	9	18	0	
2-2.5	0	0	9	9	0	0	
3-3.5	0	0	0	0	0	0	
4-5.5	0	0	9	0	0	0	
6-7.5	0	0	0	0	9	0	
8-9.5	0	0	0	0	0	9	
>10	0	0	0	0	0	0	

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adj

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4

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	39	1	+	0	0	0	6
1-1.5	33	10	2	+	0	0	3
2-2.5	1	2	1	0	0	0	0
3-3.5	1	+	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

397

5

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	39	1	0	0	0	0	11
1-1.5	27	10	4	0	0	0	2
2-2.5	1	5	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

82

6

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	15	2	+	+	0	0	1
1-1.5	21	18	5	+	+	+	1
2-2.5	3	9	10	3	+	+	+
3-3.5	+	2	3	2	1	+	+
4-4.5	+	+	+	1	1	+	+
5-7.5	0	0	+	+	+	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3057

7

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	30	1	1	+	0	+	18
1-1.5	21	17	4	1	0	+	5
2-2.5	1	1	1	1	0	0	0
3-3.5	0	0	0	0	+	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

641

8

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	18	1	+	0	0	0	6
1-1.5	29	22	5	1	+	0	4
2-2.5	3	5	3	1	+	0	1
3-3.5	+	+	1	+	0	0	0
4-4.5	0	0	+	+	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

789

9

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	18	2	+	+	0	0	3
1-1.5	25	19	5	+	1	+	3
2-2.5	3	7	7	2	0	+	+
3-3.5	+	1	3	1	+	+	+
4-4.5	0	+	+	+	+	+	0
5-7.5	0	0	0	0	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1417

13

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	15	2	0	5	0	0	15
1-1.5	15	25	11	0	5	0	2
2-2.5	2	2	2	2	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

65

14

INSUFFICIENT DATA

15

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	12	0	2	0	0	0	7
1-1.5	10	21	10	7	0	0	2
2-2.5	21	2	2	0	0	0	0
3-3.5	0	2	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

42

16

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	8	0	1	0	0	0	8
1-1.5	21	21	9	0	1	1	3
2-2.5	0	11	6	0	0	1	5
3-3.5	0	0	3	0	3	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

80

17

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	5	1	:	0	0	0	1
1-1.5	12	14	10	1	0	0	6
2-2.5	3	13	16	5	1	0	1
3-3.5	1	1	3	2	0	0	1
4-4.5	0	0	0	0	1	0	0
5-7.5	0	0	0	0	0	0	1
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

153

18

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	11	0	0	0	0	0	0
1-1.5	29	37	3	0	0	0	0
2-2.5	3	9	8	0	0	0	0
3-3.5	0	0	3	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

22

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	14	11	0	0	0	0	6
1-1.5	20	0	0	0	6	0	17
2-2.5	6	9	0	0	0	0	3
3-3.5	0	6	3	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

23

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	22	2	1	+	0	0	4
1-1.5	22	12	4	2	2	+	3
2-2.5	5	7	4	1	+	1	1
3-3.5	1	1	2	+	+	0	0
4-4.5	+	1	2	+	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	1	0
>10	0	0	0	0	0	0	0

174

24

INSUFFICIENT DATA

25

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	15	12	4	0	0	0	4
2-2.5	4	15	15	9	0	0	0
3-3.5	0	0	6	8	0	0	0
4-4.5	0	4	0	3	4	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

26

26

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	8	27	7	0	8	0	0
2-2.5	0	19	10	1	3	1	1
3-3.5	0	7	4	4	1	0	0
4-4.5	0	0	0	0	0	1	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

71

27

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	8	2	1	0	0	0	0
1-1.5	20	11	2	2	0	1	1
2-2.5	5	9	17	5	0	1	2
3-3.5	1	2	5	2	0	1	1
4-4.5	1	2	2	1	0	1	1
5-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

127

31

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	4
1-1.5	14	14	11	0	0	0	0
2-2.5	0	4	7	0	11	0	0
3-3.5	0	4	0	6	7	0	0
4-4.5	0	4	4	7	0	4	0
5-7.5	0	0	4	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

32

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	2	0	0	0	0	0	1
1-1.5	7	4	2	1	1	0	5
2-2.5	3	9	20	8	2	0	5
3-3.5	+	2	10	2	3	1	1
4-4.5	0	+	3	2	1	3	+
5-7.5	0	0	0	0	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

207

33

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	5	1	+	0	0	0	+
1-1.5	7	7	7	3	1	+	3
2-2.5	3	12	16	8	4	1	2
3-3.5	1	2	4	1	2	1	+
4-4.5	0	1	1	2	1	1	+
5-7.5	0	+	+	+	+	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

496

34

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	5	+	1	0	0	0	2
1-1.5	18	19	2	2	1	0	1
2-2.5	4	10	8	3	+	0	+
3-3.5	2	5	4	2	+	+	0
4-4.5	1	2	3	+	0	0	+
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

248

35

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	9	0	0	0	0	0	3
1-1.5	14	14	3	1	1	0	2
2-2.5	3	18	1	5	2	2	3
3-3.5	1	6	3	1	1	1	0
4-4.5	0	1	0	1	1	0	0
5-7.5	0	1	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

148

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	14	14	0	11	0	0	0
2-2.5	0	14	11	14	0	0	0
3-3.5	0	0	4	4	0	0	4
4-4.5	0	0	4	0	0	0	7
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

42

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	0	18	0	9	18	0	0
2-2.5	0	0	9	9	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	9	0	0	0	0
5-7.5	0	0	0	0	9	0	0
8-9.5	0	0	0	0	0	9	0
>10	0	0	0	0	0	0	0

11

43

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	3	0	1	0	0	0	1
1-1.5	10	6	8	0	0	0	1
2-2.5	2	13	8	2	4	0	2
3-3.5	0	5	11	3	4	0	2
4-4.5	0	6	2	4	0	0	0
5-7.5	0	0	1	1	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

99

44

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	8	0	8	0	0	0	0
2-2.5	0	13	8	8	0	0	0
3-3.5	0	0	13	18	0	0	0
4-4.5	0	0	28	8	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

18

45

HEIGHT (FEET)	PERIOD (SECONDS) <6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-1.5	1	1	1	1	0	0	1
1-1.5	18	12	4	1	3	0	0
2-2.5	8	10	10	2	1	1	1
3-3.5	3	8	7	3	1	0	0
4-4.5	1	2	3	2	0	1	0
5-7.5	0	1	0	1	1	1	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

195

ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

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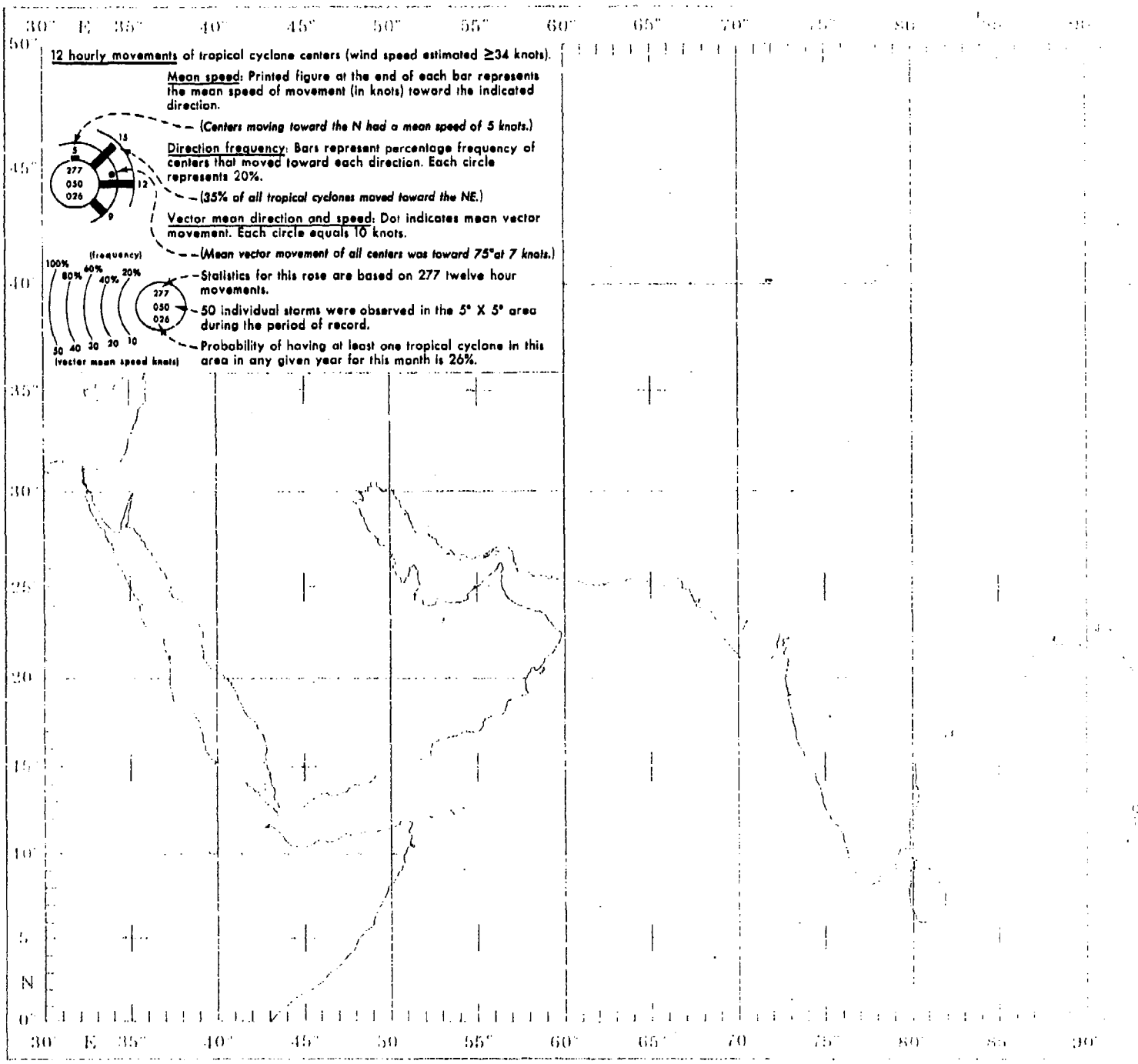
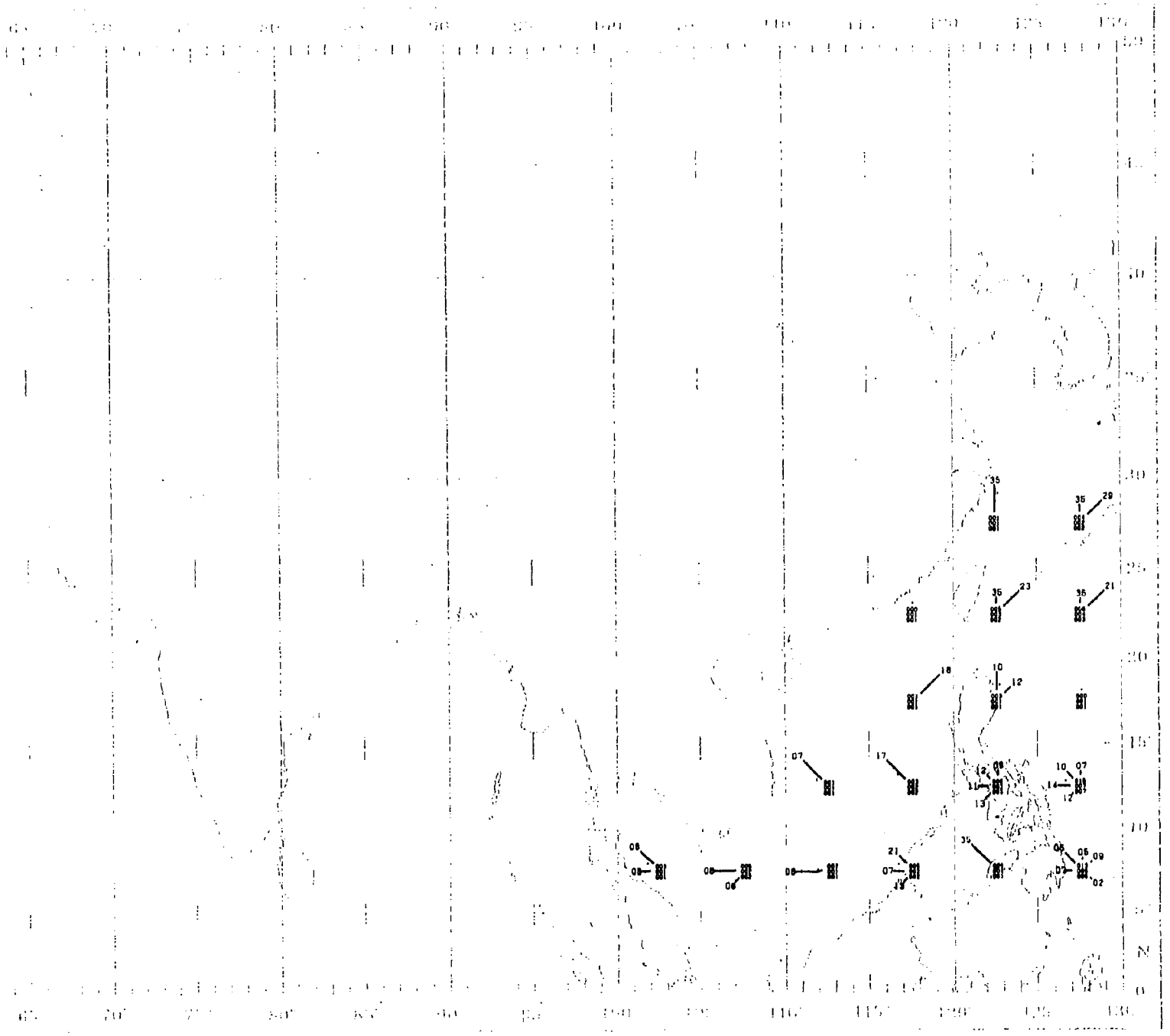
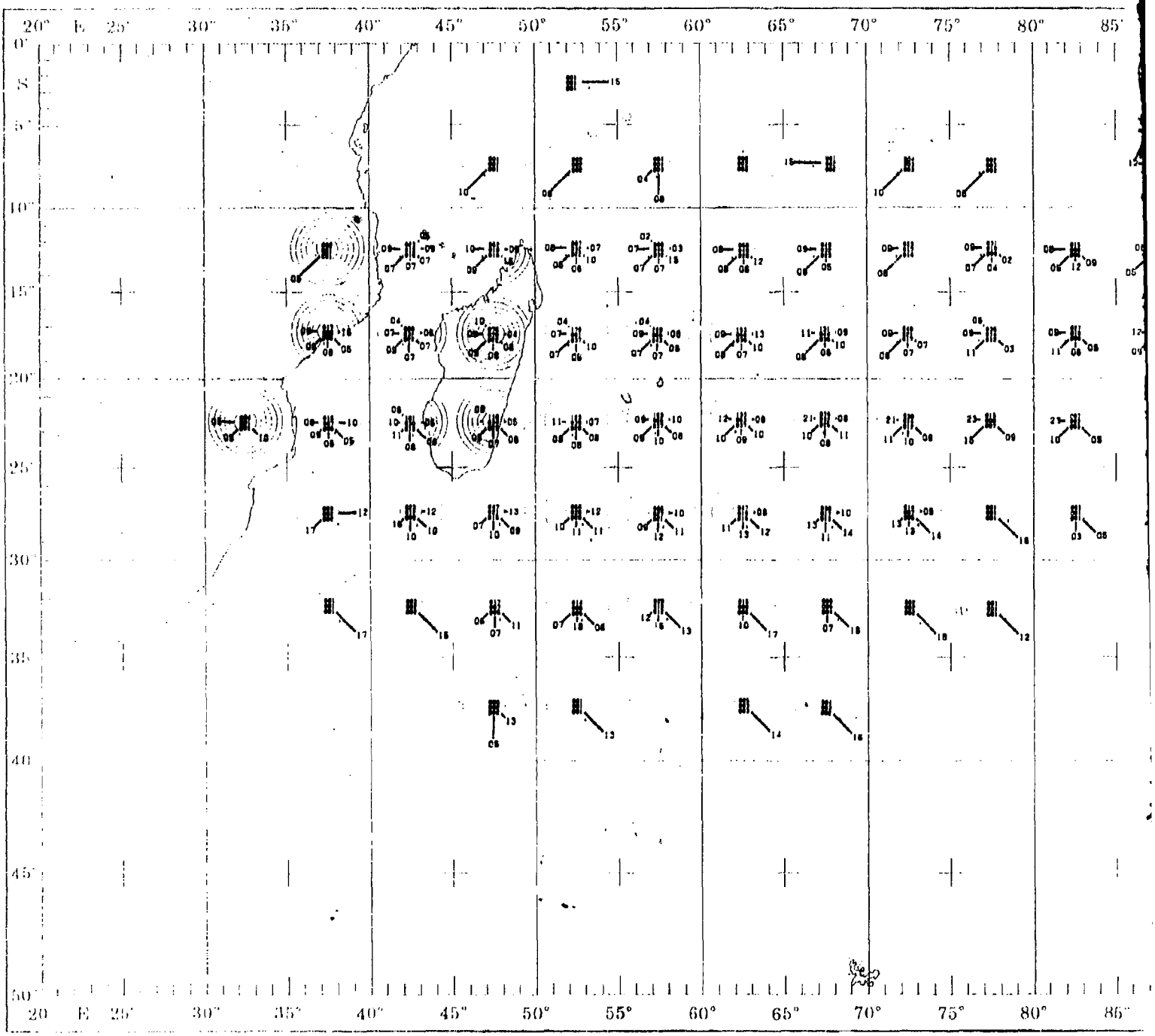

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.
(frequency)
100%
80%
60%
40%
20%
30 40 30 20 10
(vector mean speed knots)
277
050
026
5
15
12
9
30° E
35°
40°
45°
50°
55°
60°
65°
70°
75°
80°
85°
90°
50°
45°
40°
35°
30°
25°
20°
15°
10°
5
N
0°

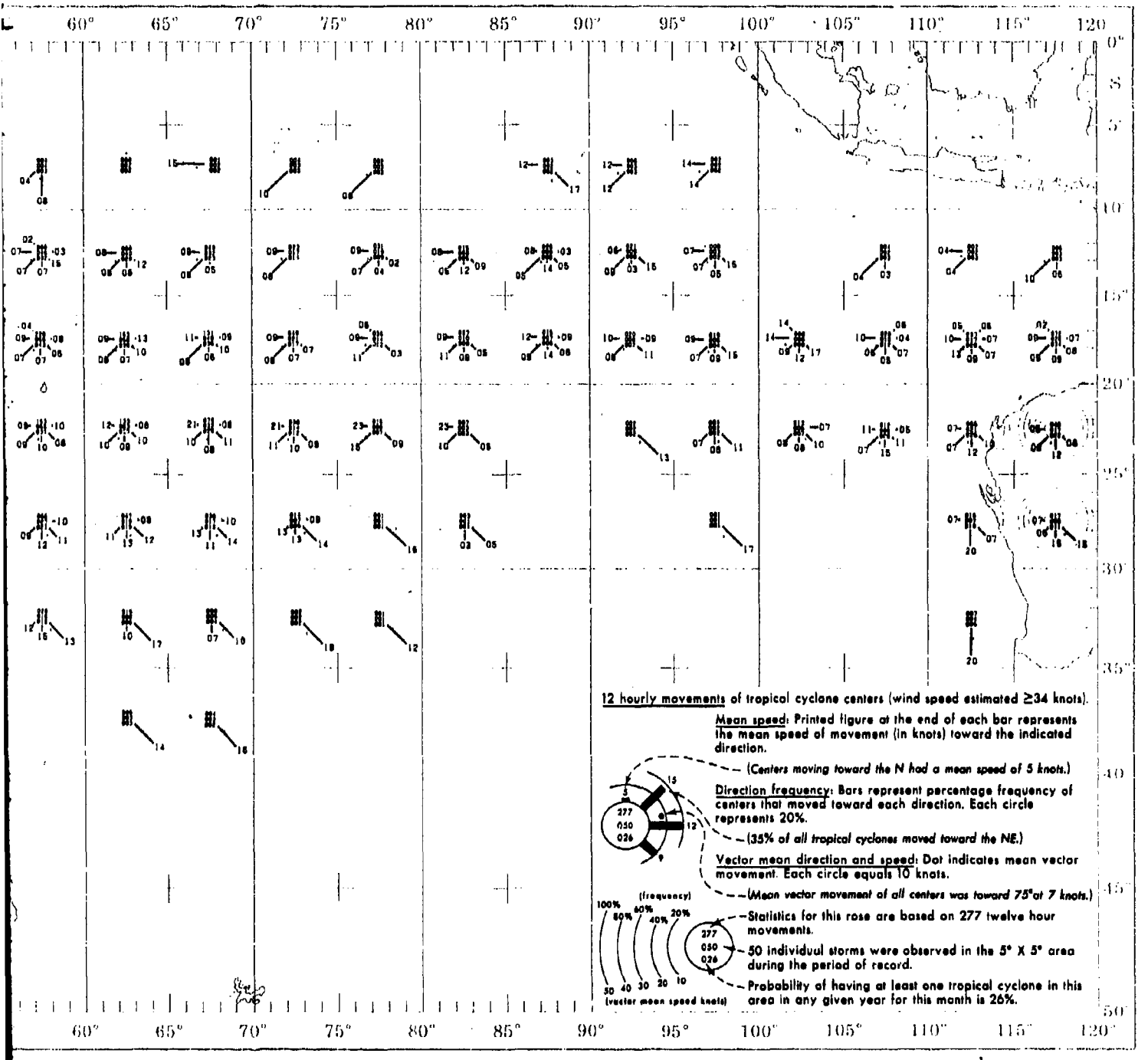
TROPICAL CYCLONE



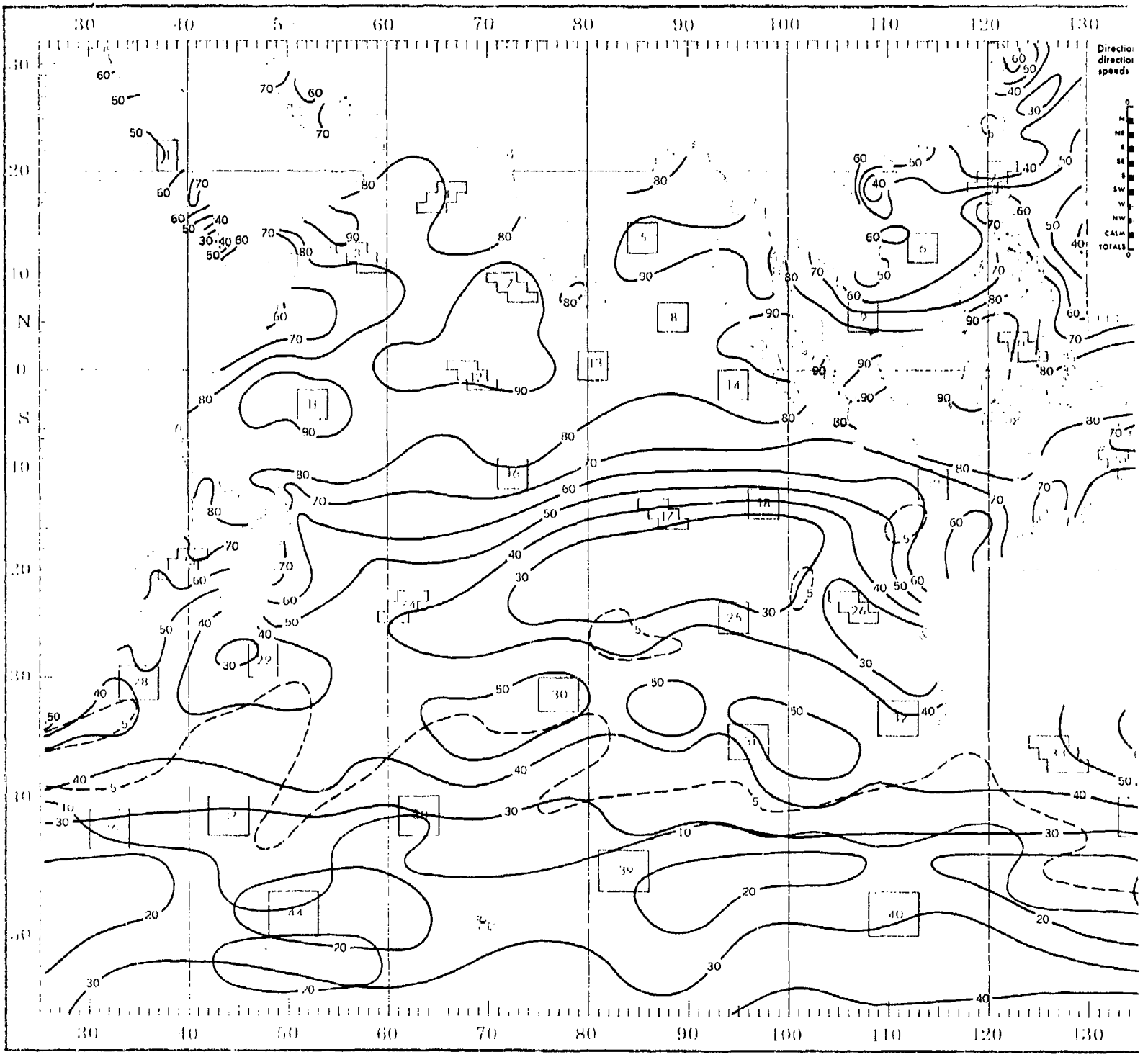
TROPICAL CYCLONE



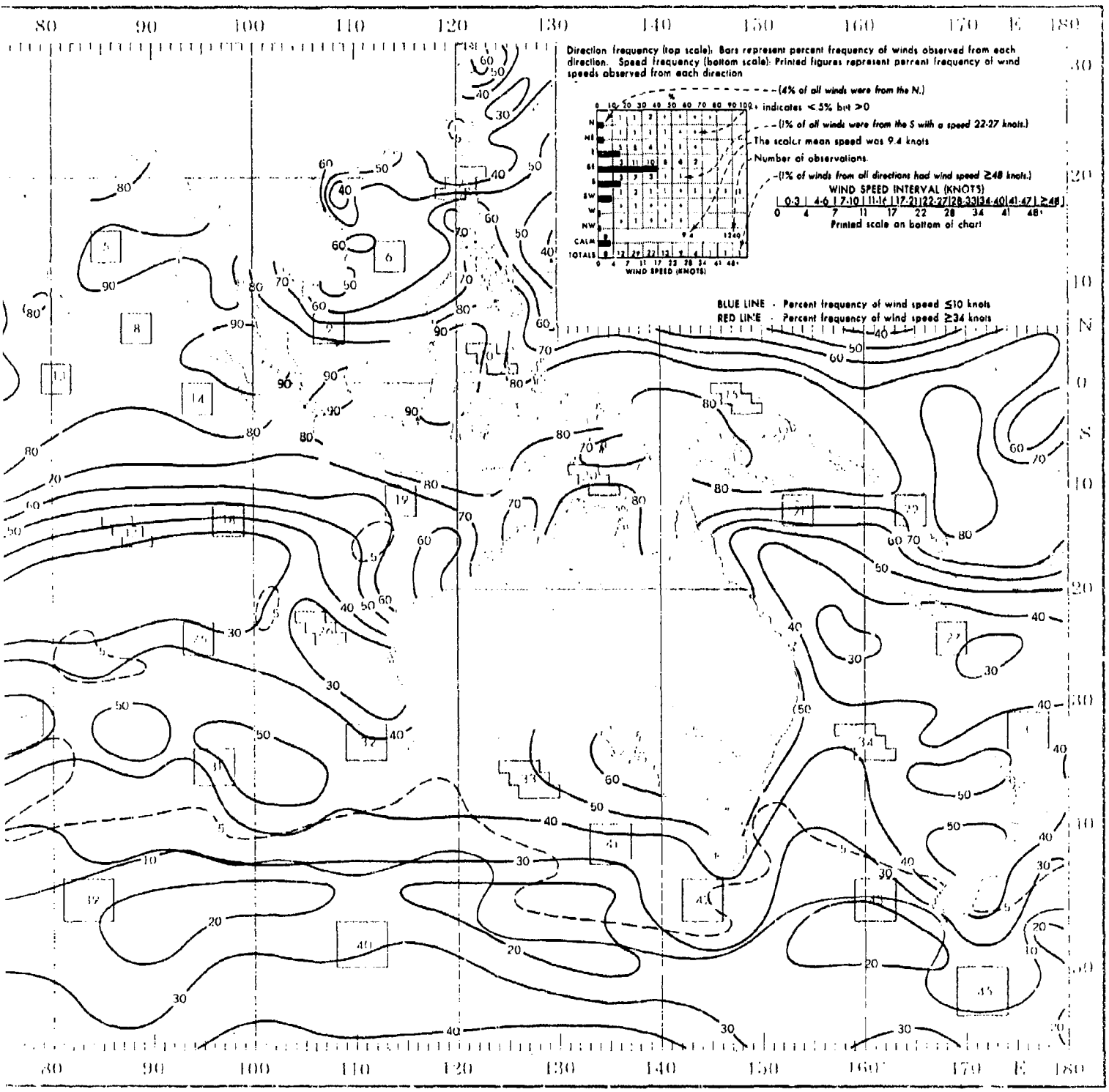
FEBRUARY


60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0° 5° 10° 15° 20° 25° 30° 35° 40° 45° 50°
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
277
050
026
(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

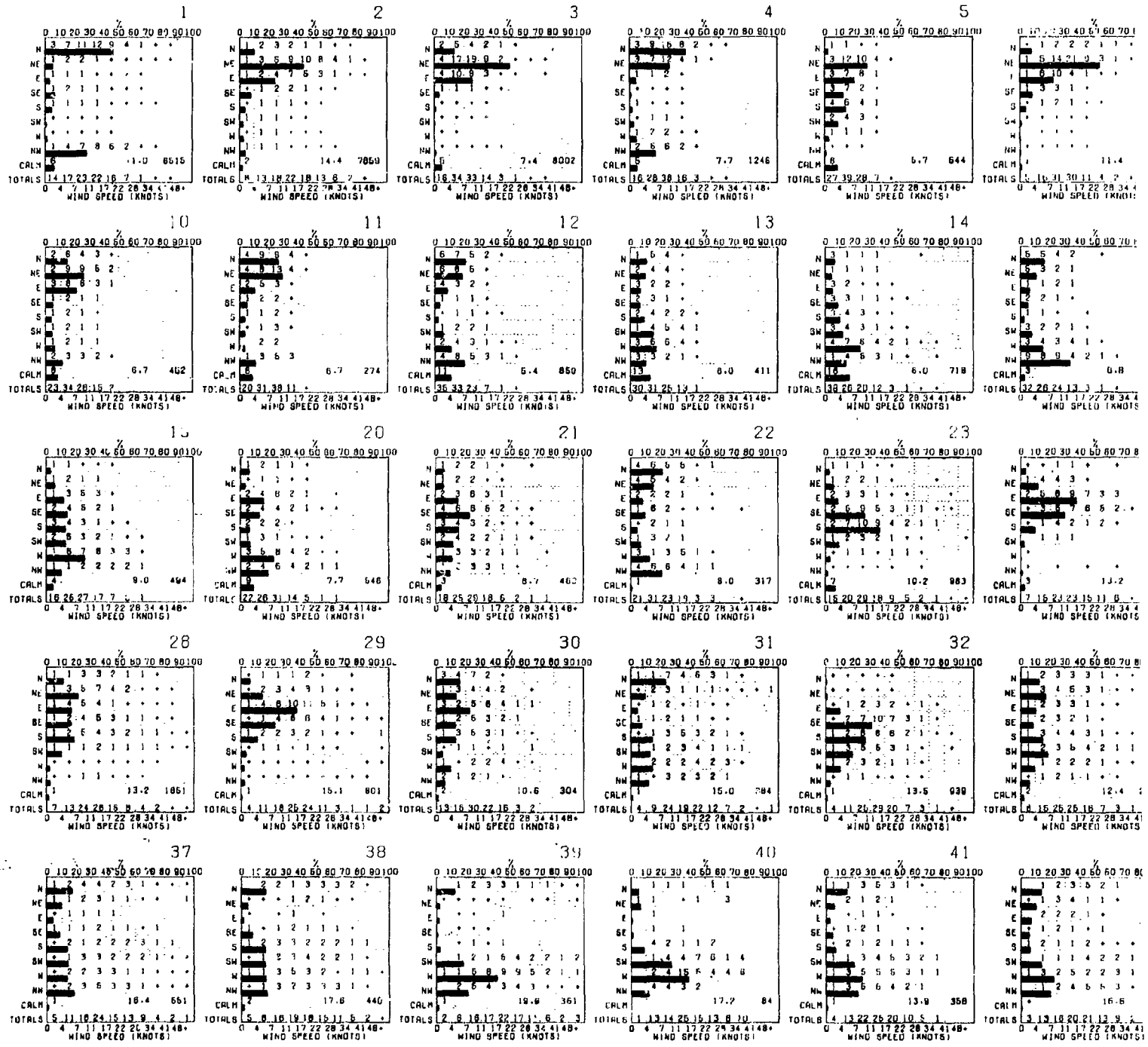
MARCH



SURFACE WINDS



WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adj

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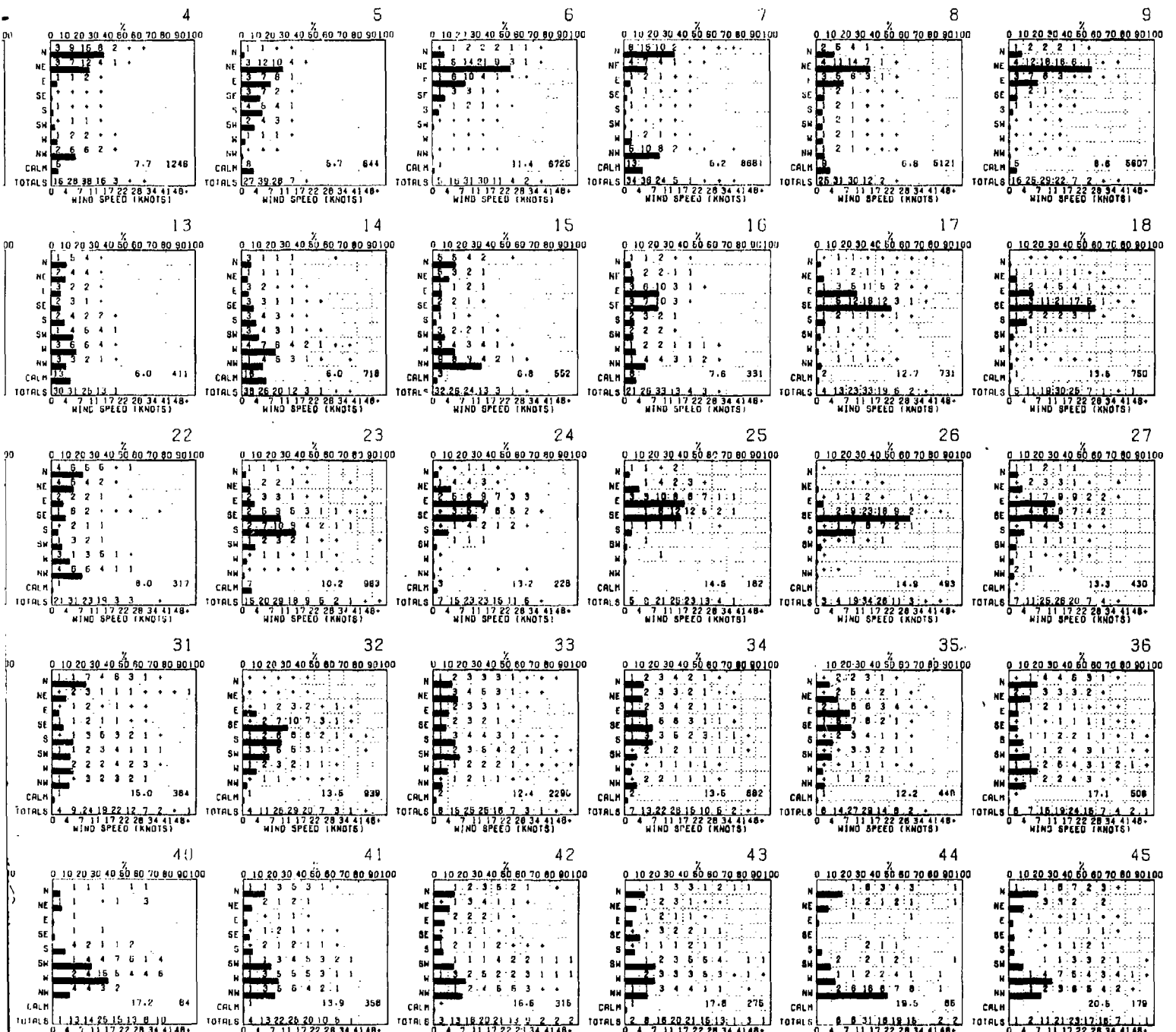
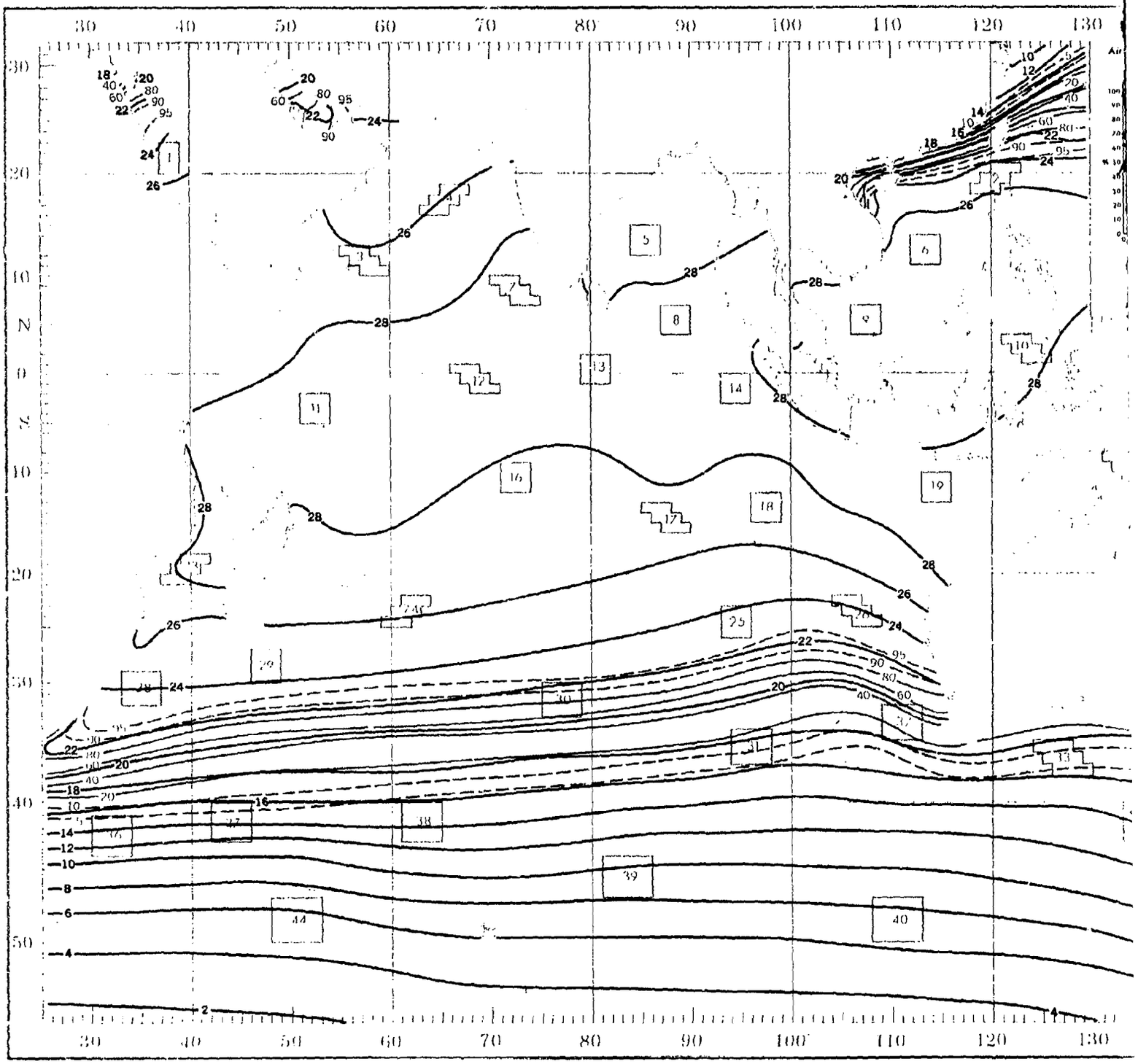
MARCH



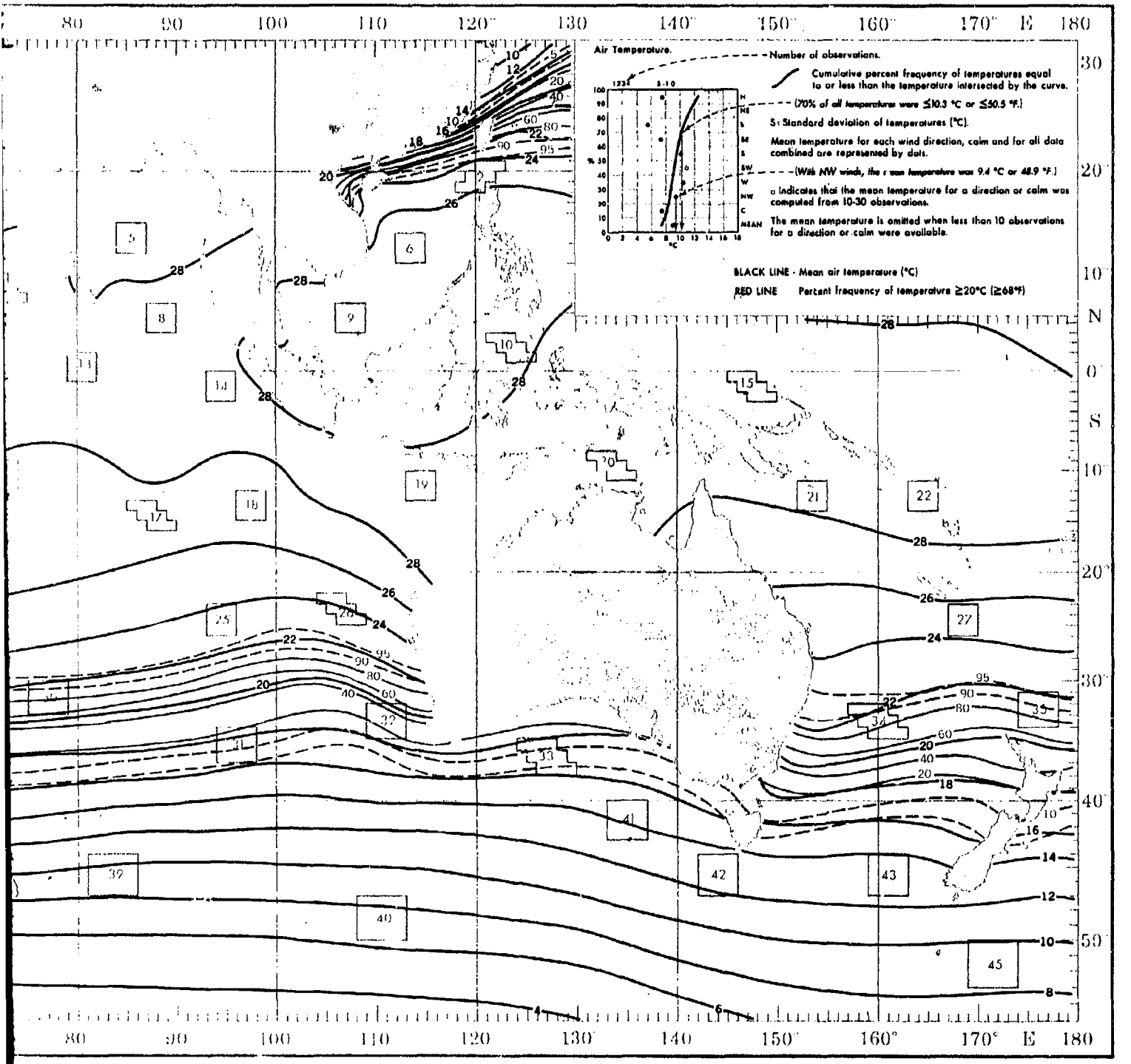
jective compilation of available data for specified areas without regard to suspected biases.

pposite page) are based on all available data subjectively adjusted where bias was evident.

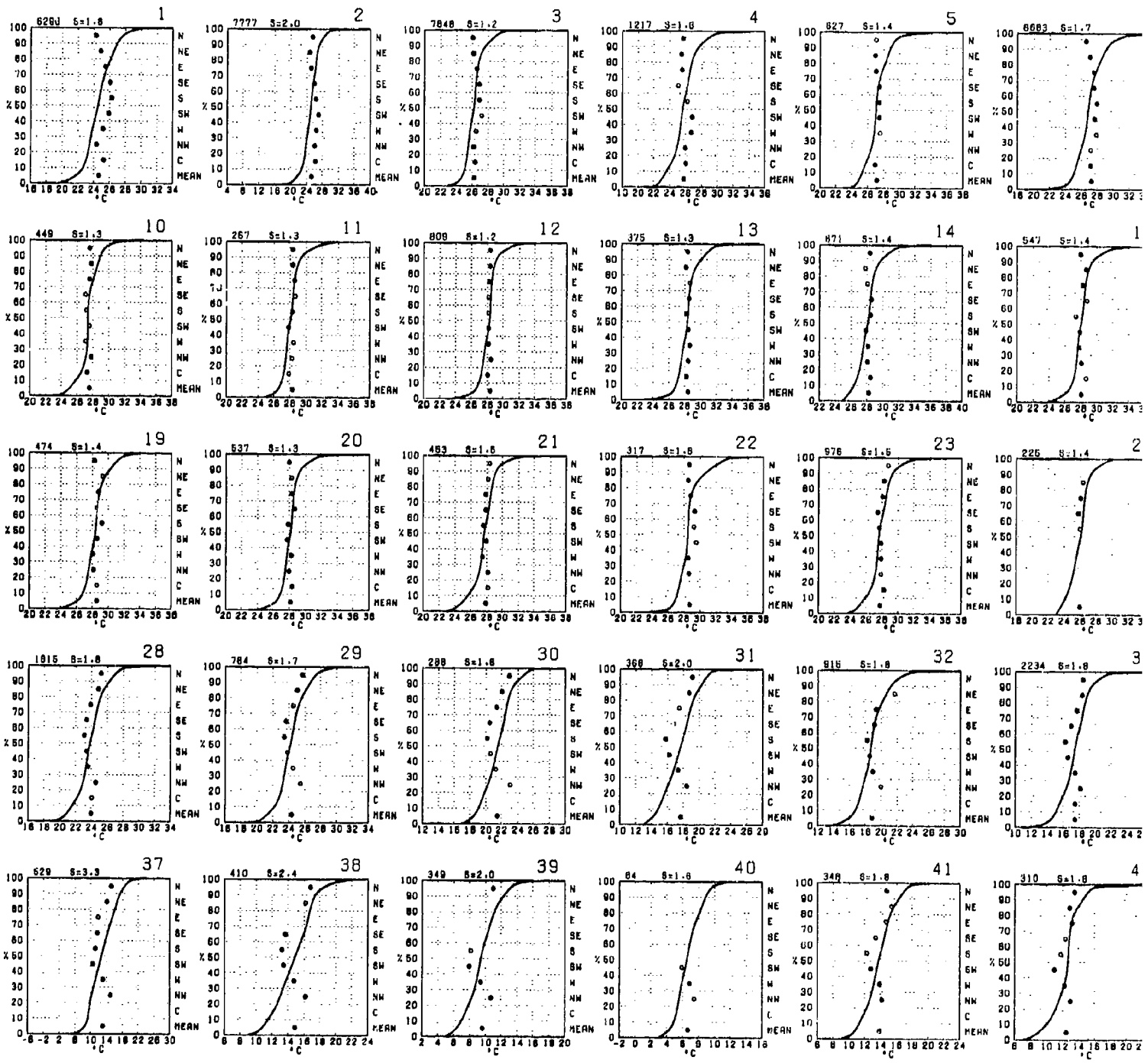
MARCH



SURFACE AIR TEMPERATURE

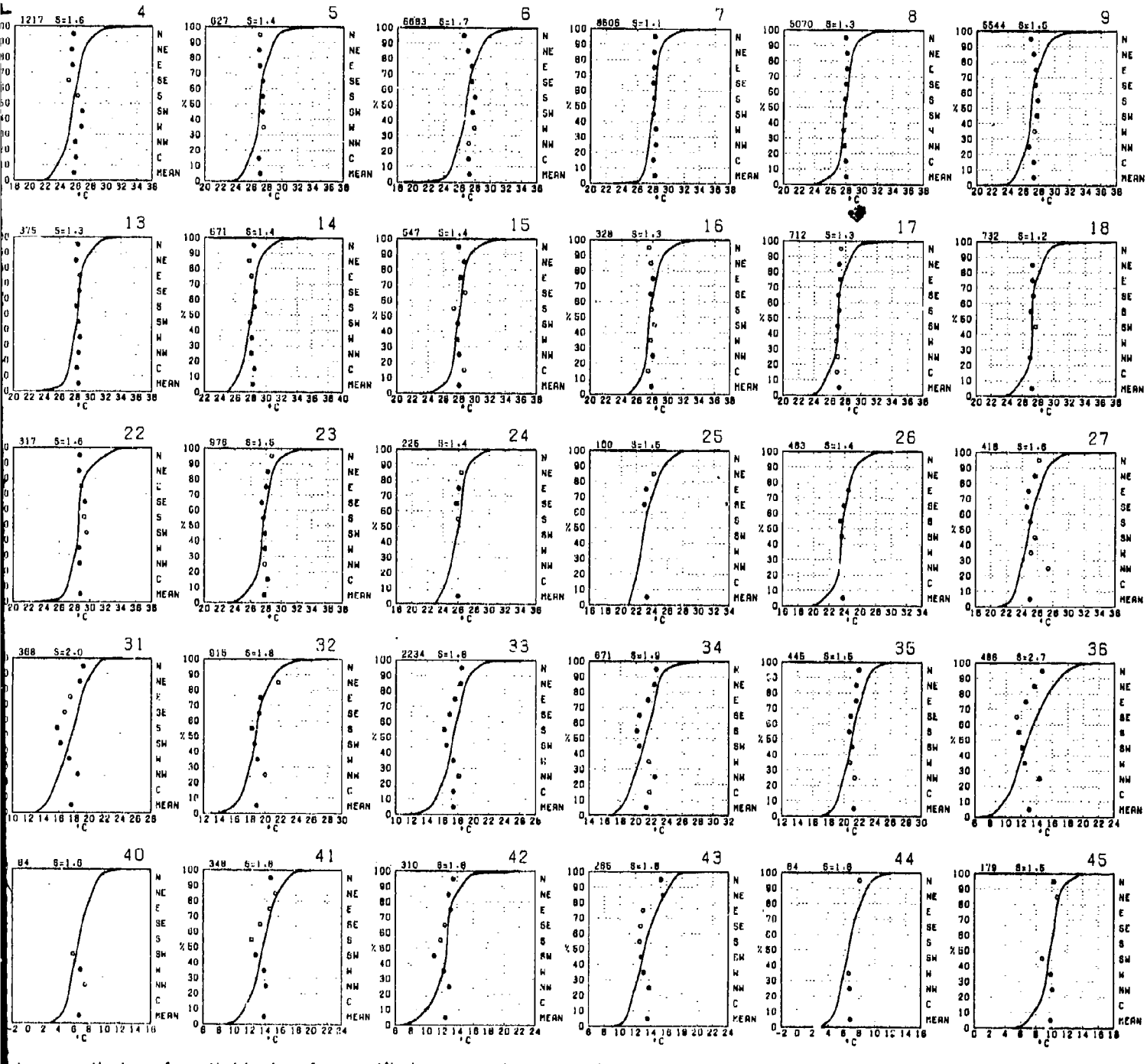


SURFACE AIR TEMPERATURE



Graphs represent the objective compilation of available data for specified areas witha
The **isopleth** analyses (opposite page) are based on all available data subjectively ad

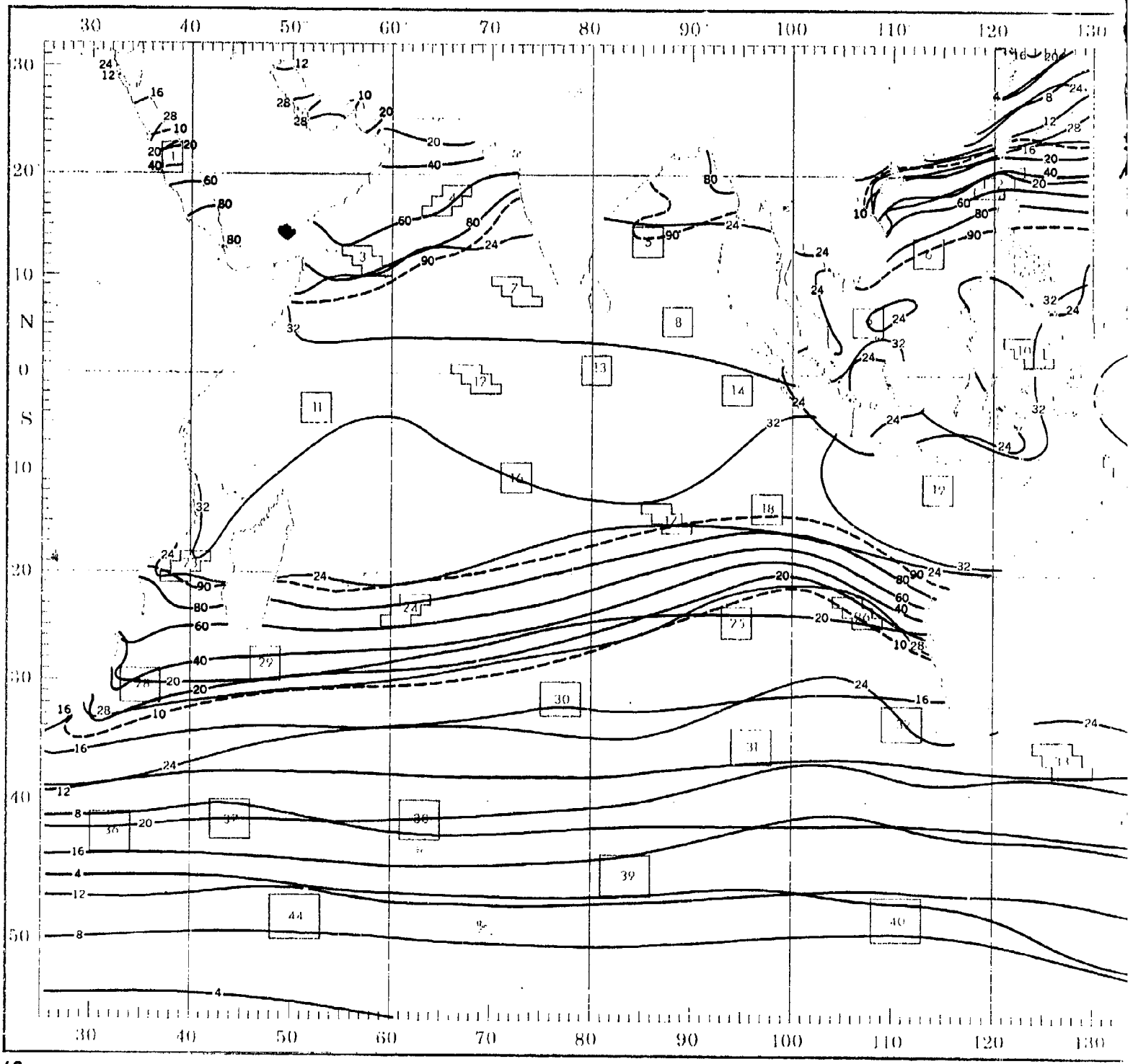
MARCH



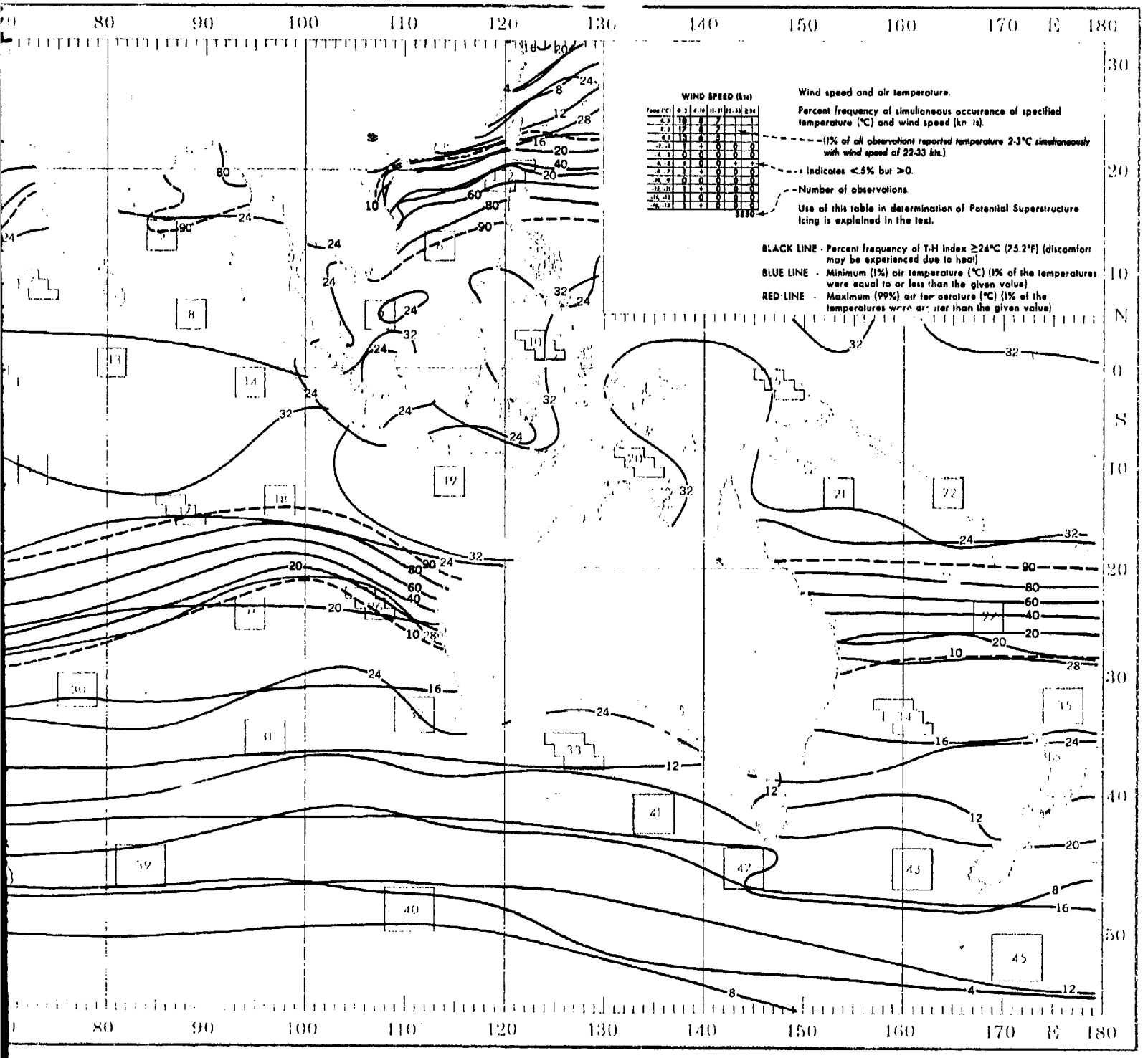
tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

MARCH

TEMPERATURE E



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.00	+	+	+	0	0
30.01	+	+	+	+	0
28.26	1	3	2	+	0
26.27	5	17	7	1	+
24.26	6	18	17	4	+
22.23	2	6	11	3	+
20.21	+	1	2	+	0
18.18	+	+	+	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

8314

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	+	+	+	0	0
30.31	+	1	1	+	0
28.28	2	6	3	1	+
26.27	3	14	14	3	+
24.26	2	9	15	8	1
22.23	+	1	8	6	1
20.21	+	+	1	1	+
18.18	+	+	+	+	+
16.17	0	+	+	+	0
14.15	0	0	0	0	0

7783

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	1	+	0	0
28.28	3	10	2	+	+
26.27	9	42	10	+	+
24.26	3	14	5	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

7888

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	+	1	+	0	0
28.28	2	8	2	0	0
26.27	8	29	7	0	0
24.26	6	24	8	+	0
22.23	1	3	1	0	0
20.21	0	+	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1226

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	0	0	0
30.31	2	2	0	0	0
28.28	10	22	2	0	0
26.27	13	38	4	0	0
24.26	2	4	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

830

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
34.36	+	+	+
32.33	+	1	1
30.31	+	4	3
28.28	2	16	12
26.27	2	23	20
24.26	+	3	4
22.23	0	+	+
20.21	+	+	+
18.18	0	0	0
16.17	0	0	0
14.15	0	0	0

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	0	0	0
30.31	1	3	1	0	0
28.28	11	27	9	0	0
26.27	10	26	7	0	0
24.26	1	3	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

450

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	2	0	0	0
30.31	1	7	2	0	0
28.28	13	44	8	0	0
26.27	4	16	4	0	0
24.26	+	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

271

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	5	8	+	0	0
28.28	25	37	5	0	0
26.27	6	9	2	0	0
24.26	+	+	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

823

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	+	0	0
30.31	5	10	3	0	0
28.28	18	37	8	0	0
26.27	6	9	3	0	0
24.26	+	+	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

375

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	1	0	0	0
30.31	7	8	2	0	0
28.28	20	29	8	+	0
26.27	8	10	5	1	0
24.26	+	1	+	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

671

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
32.33	2	1	0
30.31	3	2	1
28.28	19	30	11
26.27	8	15	5
24.26	+	2	+
22.23	0	0	0
20.21	0	0	0
18.18	0	0	0
16.17	0	0	0
14.15	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	2	1	0	0
30.31	4	9	3	+	0
28.28	9	33	16	4	0
26.27	2	8	5	2	0
24.26	0	1	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

475

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	1	0	0
30.31	2	7	2	0	0
28.28	14	38	12	1	0
26.27	4	11	4	1	0
24.26	1	1	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

538

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	0	0	0	0
32.33	1	1	+	0	0
30.31	3	3	3	+	0
28.28	8	32	13	2	0
26.27	6	14	7	1	1
24.26	+	3	1	+	0
22.23	+	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

458

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	5	0	0	0
30.31	5	9	3	0	0
28.28	13	30	13	2	+
26.27	1	10	4	1	0
24.26	+	+	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

319

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	0	1	+	0	0
30.31	3	5	1	+	0
28.28	10	24	9	2	0
26.27	3	17	14	4	1
24.26	+	1	1	1	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

1005

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
30.31	0	0	+
28.28	+	4	7
26.27	3	24	21
24.26	2	10	10
22.23	+	0	0
20.21	0	0	0
18.18	0	0	0
16.17	0	0	0
14.15	0	0	0
12.13	0	0	0
10.11	0	0	0

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	0	+	0
28.28	1	1	1	+	0
26.27	2	7	7	1	+
24.26	3	15	18	4	1
22.23	2	12	12	4	1
20.21	+	2	2	1	1
18.18	0	+	+	0	0
16.17	0	+	+	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1823

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.28	+	2	2	+	0
26.27	1	6	10	2	1
24.26	2	12	23	7	1
22.23	1	6	13	4	1
20.21	0	1	1	1	1
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

784

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	1	0	0	0
24.26	3	8	2	+	0
22.23	6	15	17	1	0
20.21	2	18	12	1	0
18.18	1	5	5	3	0
16.17	+	0	1	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

289

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	1	1	1	1	0
20.21	1	7	5	2	0
18.18	1	12	17	7	1
16.17	2	11	12	6	1
14.15	+	4	6	2	1
12.13	1	0	1	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

389

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	0	0	0
24.26	+	+	1	0	0
22.23	+	3	3	1	0
20.21	1	8	11	2	+
18.18	2	17	24	5	1
16.17	1	5	9	2	+
14.15	+	+	1	+	+
12.13	0	+	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

917

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
24.26	0	+	+
22.23	+	1	+
20.21	1	4	5
18.18	3	14	16
16.17	3	16	14
14.15	1	4	5
12.13	+	+	+
10.11	0	+	0
8.8	0	0	0
6.7	0	0	0
4.5	0	0	0

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	0	+	1	1	0
18.18	+	2	5	1	1
16.17	2	3	5	4	1
14.15	+	7	8	3	1
12.13	1	5	9	4	1
10.11	1	7	8	5	1
8.8	1	3	5	4	1
6.7	+	1	+	1	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0

529

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	0	+	0	0
20.21	+	1	0	1	0
18.18	1	2	4	4	1
16.17	1	8	10	8	3
14.15	2	8	10	4	1
12.13	1	8	9	5	1
10.11	0	+	3	2	+
8.8	0	0	+	0	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

410

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	3	1	0
12.13	+	3	8	5	1
10.11	0	7	13	7	3
8.8	2	9	13	10	3
6.7	0	1	4	5	3
4.5	0	0	1	+	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

349

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	2	0	1	0
8.8	1	14	8	5	0
6.7	0	11	24	8	6
4.5	0	0	8	7	4
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

84

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	1	2	1	+	0
16.17	+	5	7	2	0
14.15	1	18	20	4	0
12.13	1	13	11	5	1
10.11	+	2	5	1	+
8.8	0	0	+	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

348

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
22.23	0	+	0
20.21	0	+	0
18.18	0	0	0
16.17	+	2	1
14.15	+	8	10
12.13	1	16	24
10.11	1	4	5
8.8	1	+	2
6.7	0	0	0
4.5	0	0	0
2.3	0	0	0

Graphs represent the objective compilation of available data for specified areas wi.h
The isopleth analyses (opposite page) are based on all available data subjectively a

4

(°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
2.39	+	+	0	0	0
0.31	+	1	+	0	0
4.79	2	8	2	0	0
4.27	6	29	7	0	0
4.25	6	24	8	+	0
2.29	1	9	1	0	0
0.21	0	+	0	0	0
0.19	0	0	0	0	0
0.17	0	0	0	0	0
0.15	0	0	0	0	0
2.13	0	0	0	0	0

1226

5

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	0	0	0
30.31	2	2	0	0	0
28.29	10	22	2	0	0
26.27	13	38	4	0	0
24.25	2	4	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

830

6

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	0	0
32.33	+	1	1	+	0
30.31	+	4	3	+	0
28.29	2	16	12	1	0
26.27	2	23	20	3	+
24.25	+	3	4	2	+
22.23	0	+	+	+	0
20.21	+	+	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

6686

7

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	0	0
32.33	+	1	+	0	0
30.31	4	8	1	0	0
28.29	23	43	4	+	+
26.27	7	11	1	+	0
24.25	+	+	+	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

8537

8

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	+	0	0
32.33	+	1	+	0	0
30.31	2	6	1	0	0
28.29	16	37	8	+	0
26.27	7	15	3	+	0
24.25	+	1	+	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5094

9

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	0	+	0
34.35	0	+	+	0	0
32.33	+	1	+	0	0
30.31	1	4	2	+	0
28.29	6	21	9	+	0
26.27	8	25	15	1	+
24.25	1	2	2	+	+
22.23	+	+	+	+	0
20.21	0	+	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5561

13

(°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
2.39	1	1	+	0	0
0.31	5	10	3	0	0
8.29	18	37	8	0	0
6.27	5	9	3	0	0
4.25	+	+	1	0	0
2.23	0	0	0	0	0
0.21	0	0	0	0	0
8.19	0	0	0	0	0
6.17	0	0	0	0	0
4.15	0	0	0	0	0
2.13	0	0	0	0	0

376

14

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	1	0	0	0
30.31	7	8	2	0	0
28.29	20	29	8	+	0
26.27	8	10	5	1	0
24.25	+	1	+	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

671

15

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
32.33	2	1	0	0	0
30.31	3	2	1	+	0
28.29	19	30	11	1	0
26.27	8	16	6	1	0
24.25	+	2	-	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

550

16

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	+	0	0
30.31	2	5	1	0	0
28.29	11	33	9	1	0
26.27	9	17	5	2	0
24.25	0	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

336

17

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	2	2	+	0
28.29	1	11	18	3	0
26.27	3	20	31	4	+
24.25	1	9	2	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

714

18

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	1	1	2	+	0
28.29	2	10	20	5	+
26.27	2	16	30	4	1
24.25	+	2	2	+	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

732

22

(°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
2.38	+	+	0	0	0
0.33	1	5	0	0	0
8.31	5	9	3	0	0
6.29	13	30	13	2	+
4.27	1	10	4	1	0
2.25	+	+	1	0	0
0.23	0	0	0	0	0
8.21	0	0	0	0	0
6.19	0	0	0	0	0
4.17	0	0	0	0	0
2.15	0	0	0	0	0

319

23

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	0	1	+	0	0
30.31	3	5	1	+	0
28.29	10	24	9	2	0
26.27	3	17	14	4	1
24.25	+	1	1	1	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

1005

24

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	+	0	0
28.29	+	4	7	1	0
26.27	3	24	21	5	0
24.25	2	10	10	7	+
22.23	+	0	0	4	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

225

25

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
28.27	1	3	5	0	0
26.25	1	13	13	6	0
24.23	2	13	27	10	1
22.21	1	2	3	1	0
20.19	0	0	0	0	0
18.17	0	0	0	0	0
16.15	0	0	0	0	0
14.13	0	0	0	0	0
12.11	0	0	0	0	0
10.9	0	0	0	0	0
8.7	0	0	0	0	0

160

26

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
28.29	0	0	1	+	0
26.27	+	3	5	1	+
24.25	1	10	28	6	+
22.23	1	10	24	7	0
20.21	0	1	2	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

483

27

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	2	4	2	+	0
26.27	4	13	14	1	+
24.25	1	15	23	8	0
22.23	0	5	6	1	0
20.21	0	+	0	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

418

31

(°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
2.29	1	1	1	1	0
0.27	1	7	5	2	0
8.25	1	12	17	7	1
6.23	2	11	12	6	1
4.21	+	4	6	2	1
2.19	1	0	1	0	0
0.17	0	0	0	0	0
8.15	0	0	0	0	0
6.13	0	0	0	0	0
4.11	0	0	0	0	0
2.09	0	0	0	0	0

369

32

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	0	0	0
26.25	+	+	1	0	0
24.23	+	3	3	1	0
22.21	1	8	11	2	+
20.19	2	17	24	5	1
18.17	1	5	9	2	+
16.15	+	+	1	+	+
14.13	0	+	0	0	0
12.11	0	0	0	0	0
10.9	0	0	0	0	0
8.7	0	0	0	0	0

917

33

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	+	0
22.23	+	1	+	+	0
20.21	1	4	5	1	+
18.19	3	14	16	3	+
16.17	3	18	14	4	+
14.15	1	4	6	2	1
12.13	+	+	+	+	+
10.11	0	+	0	0	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

2240

34

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
26.27	1	1	+	0	0
24.25	1	4	4	1	0
22.23	3	14	17	4	+
20.21	2	11	12	6	1
18.19	1	6	7	4	+
16.17	0	+	1	+	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

674

35

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
26.27	0	1	1	0	0
24.25	1	2	3	+	0
22.23	2	13	17	2	0
20.21	3	19	19	8	+
18.19	+	6	3	1	0
16.17	0	0	+	+	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

445

36

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
20.21	0	1	1	+	0
18.19	0	1	2	1	0
16.17	1	4	8	2	+
14.15	2	5	10	5	1
12.13	1	7	11	5	1
10.11	2	4	9	5	3
8.9	1	3	2	2	1
6.7	0	0	+	+	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

486

40

(°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
2.41	0	2	0	1	0
0.39	1	14	8	6	0
8.37	0	11	24	8	6
6.35	0	0	8	7	4
4.33	0	0	0	0	0
2.31	0	0	0	0	0
0.29	0	0	0	0	0
8.27	0	0	0	0	0
6.25	0	0	0	0	0
4.23	0	0	0	0	0
2.21	0	0	0	0	0

84

41

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
18.19	1	2	1	+	0
16.17	+	5	7	2	0
14.15	1	16	20	4	0
12.13	1	13	11	5	1
10.11	+	2	5	1	+
8.9	0	0	+	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

348

42

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	0	0	0
20.21	0	+	0	0	0
18.19	0	0	0	0	0
16.17	+	2	1	+	0
14.15	+	6	10	3	1
12.13	1	16	24	15	1
10.11	1	4	5	3	1
8.9	1	+	2	1	3
6.7	0	0	0	0	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0

310

43

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	3	0	0
16.17	+	2	6	4	+
14.15	2	8	10	8	1
12.13	1	12	17	11	2
10.11	0	2	3	4	1
8.9	0	+	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

265

44

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
10.11	0	0	0	2	0
8.9	0	1	2	3	+
6.7	0	2	19	11	0
4.5	0	7	8	7	1
2.3	0	1	1	1	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

84

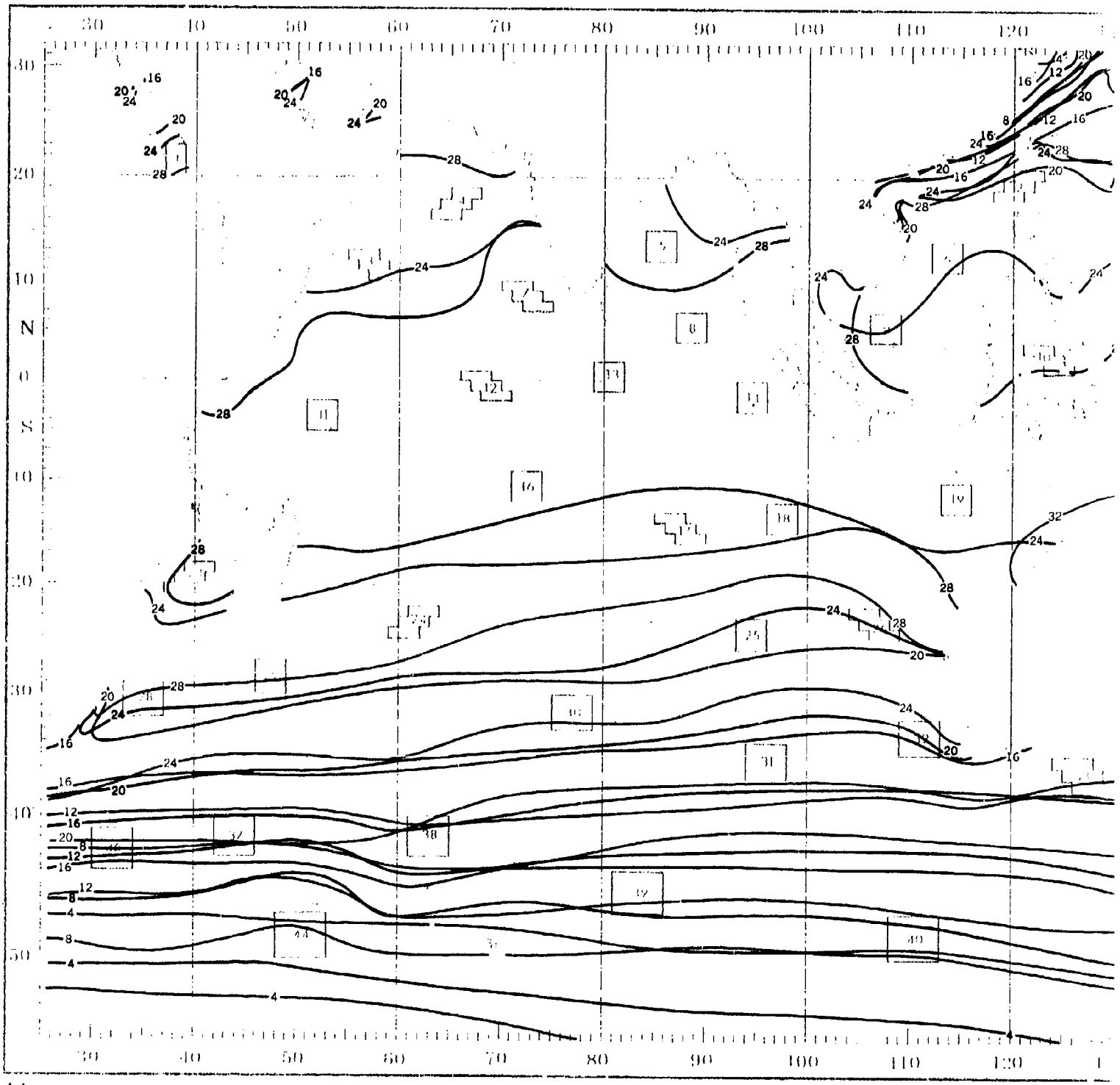
45

TEMP (°C)	WIND SPEED (KTS) 0-3	4-10	11-21	22-33	≥ 34
12.13	0	4	6	4	1
10.11	0	7	26	16	2
8.9	0	2	10	10	6
6.7	1	1	2	3	1
4.5	0	0	1	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

179

ve compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

MARCH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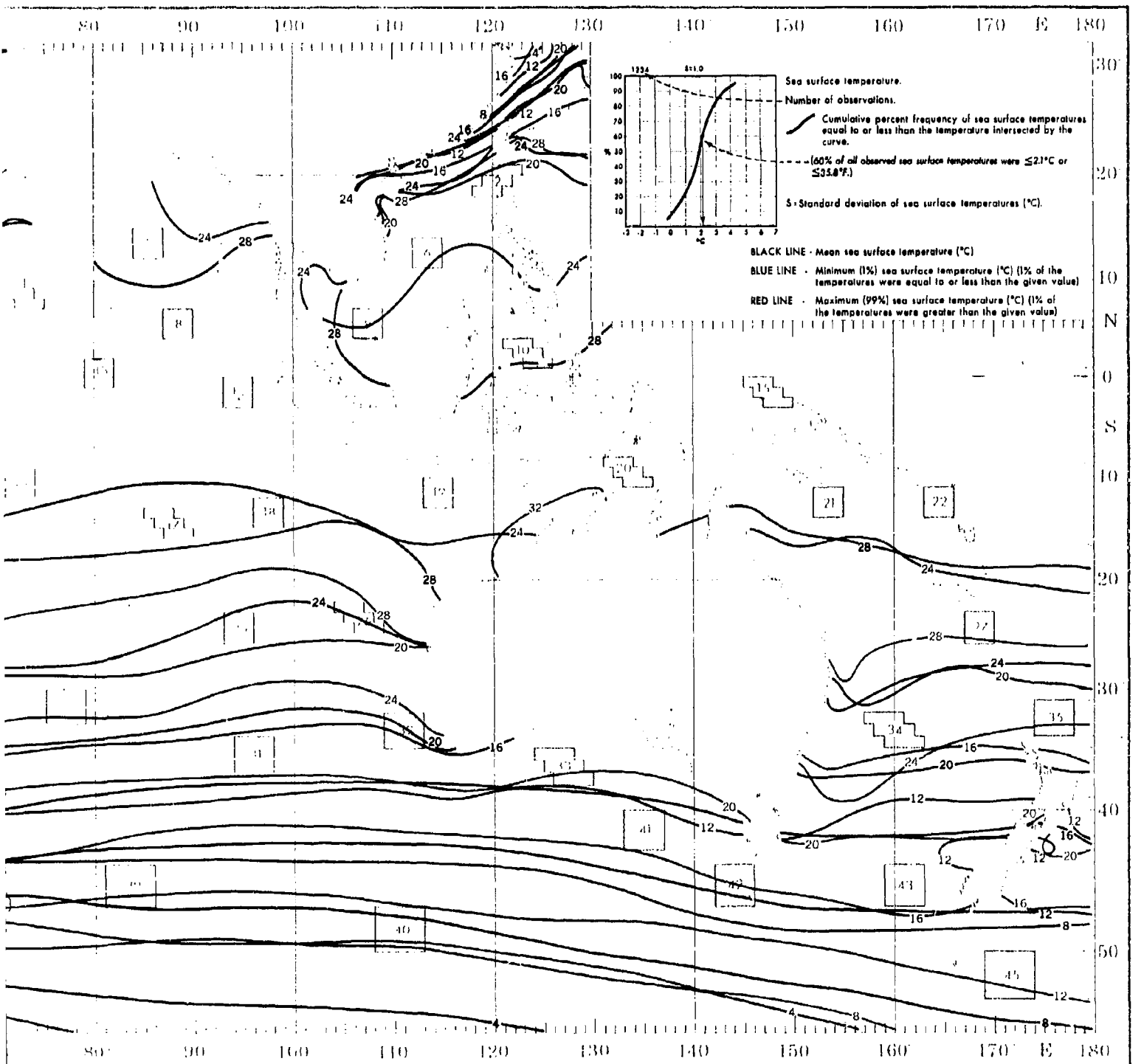
SEA SURFACE TEMPERATURE



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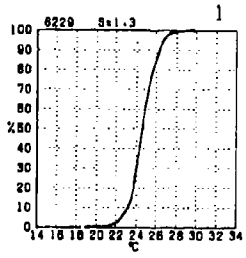

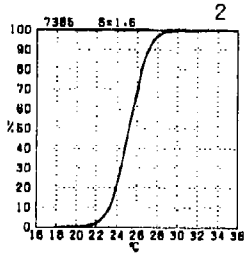

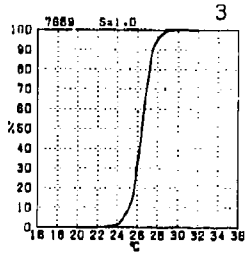

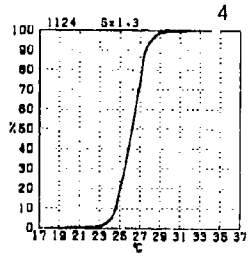

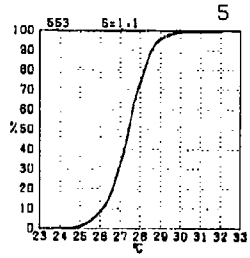

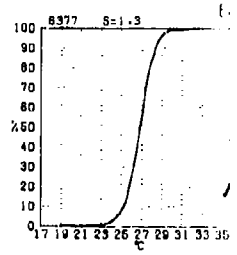

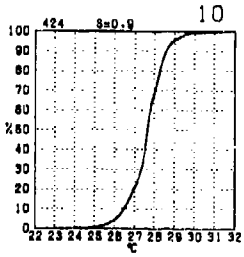

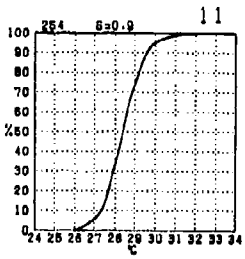

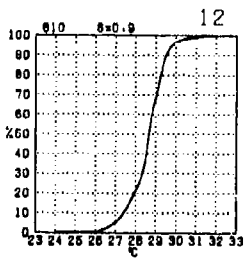

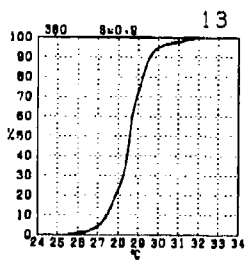

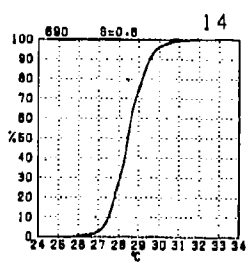

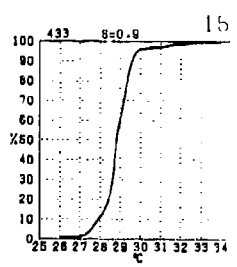

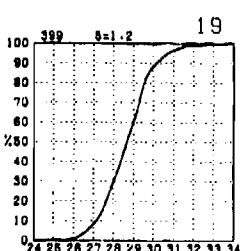

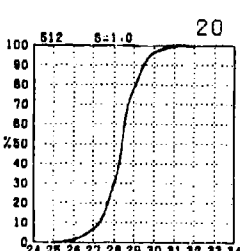

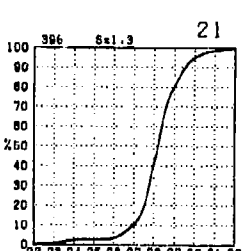

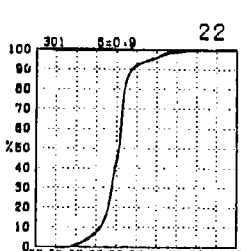

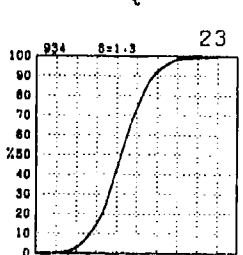

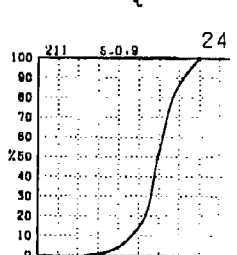

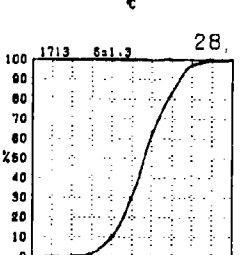

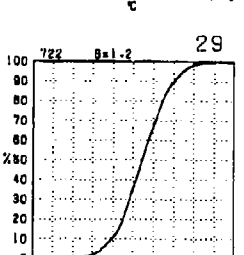

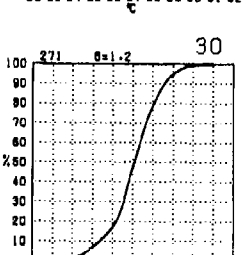

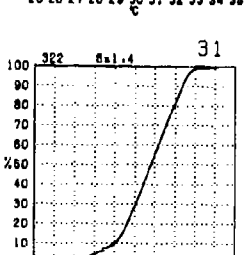

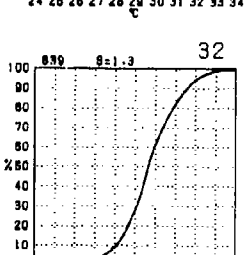

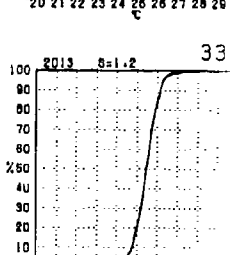

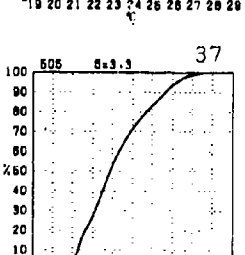

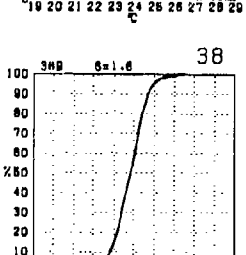

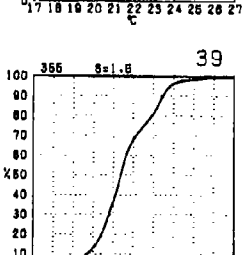

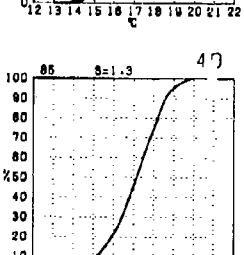

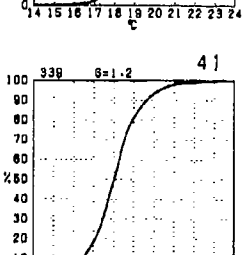

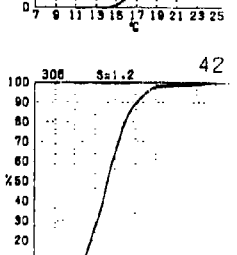

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust

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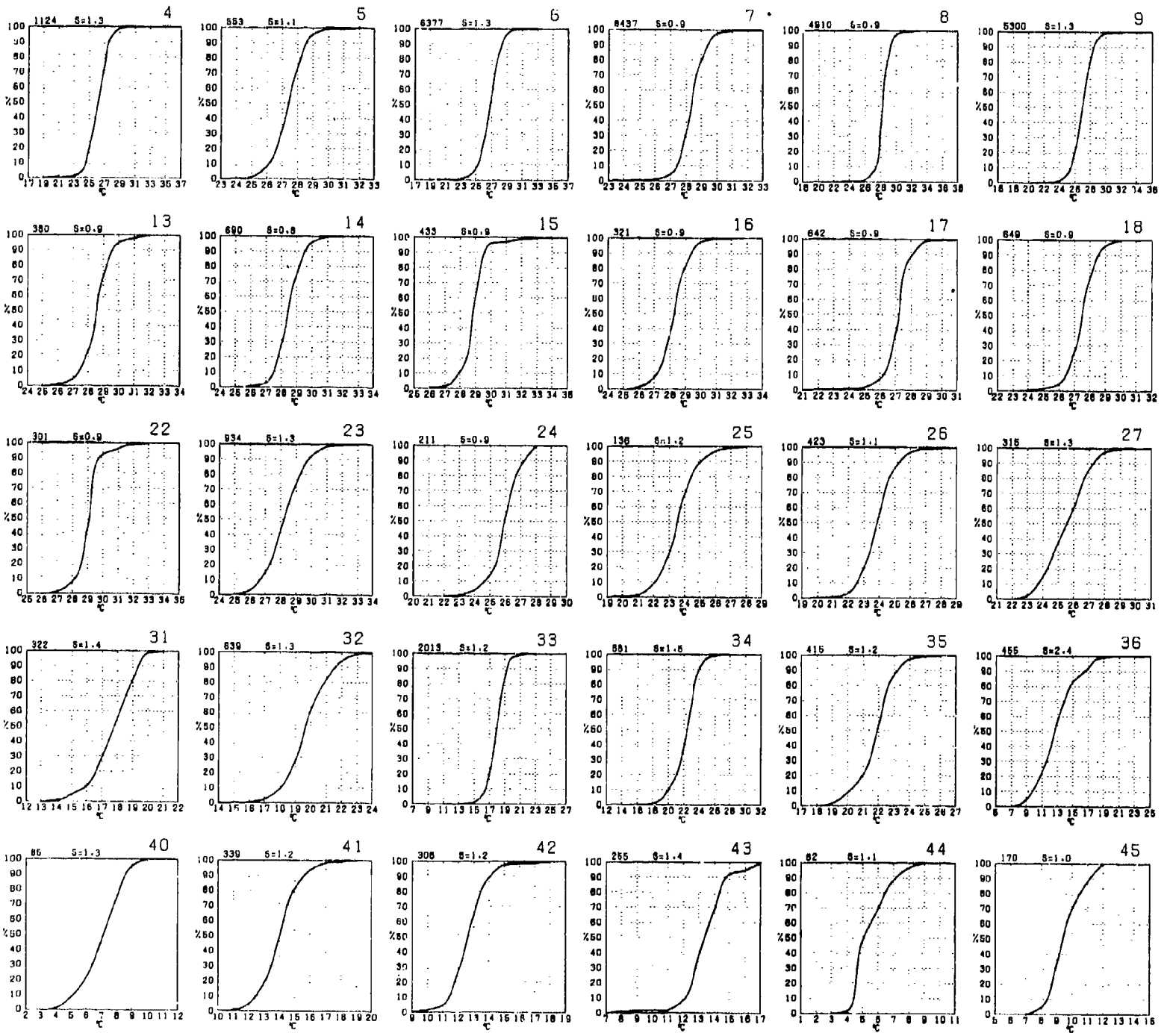

jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

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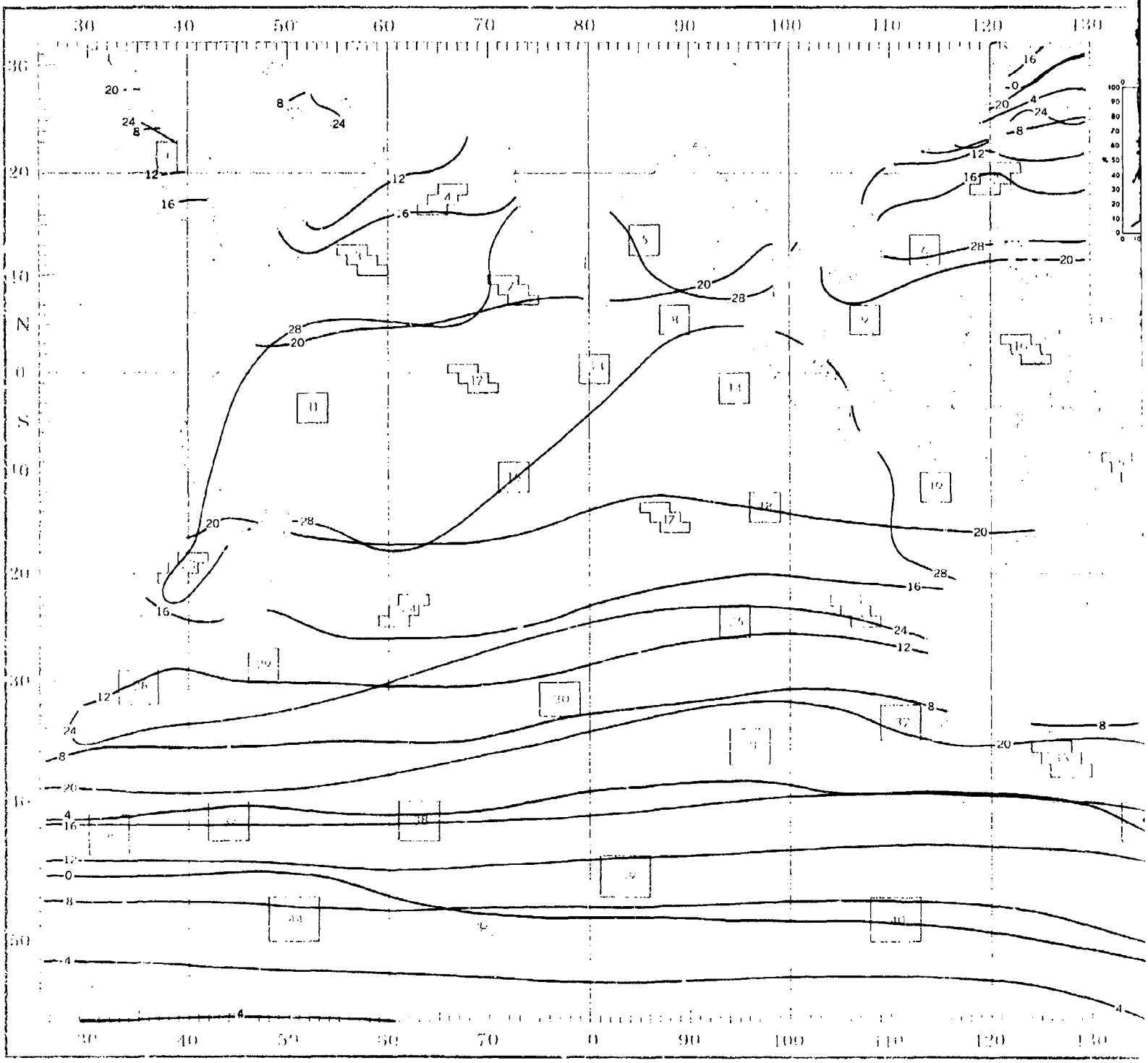

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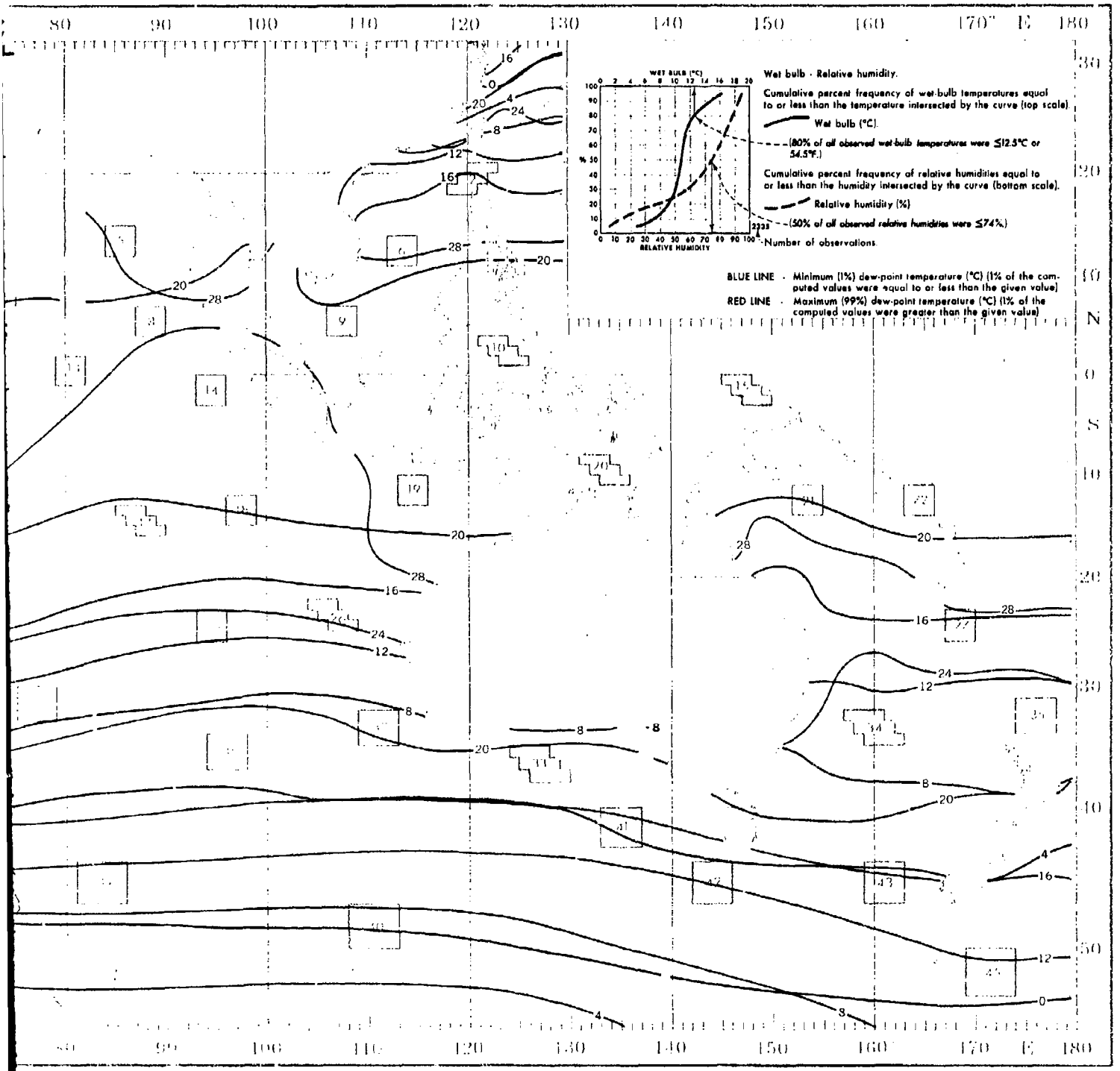
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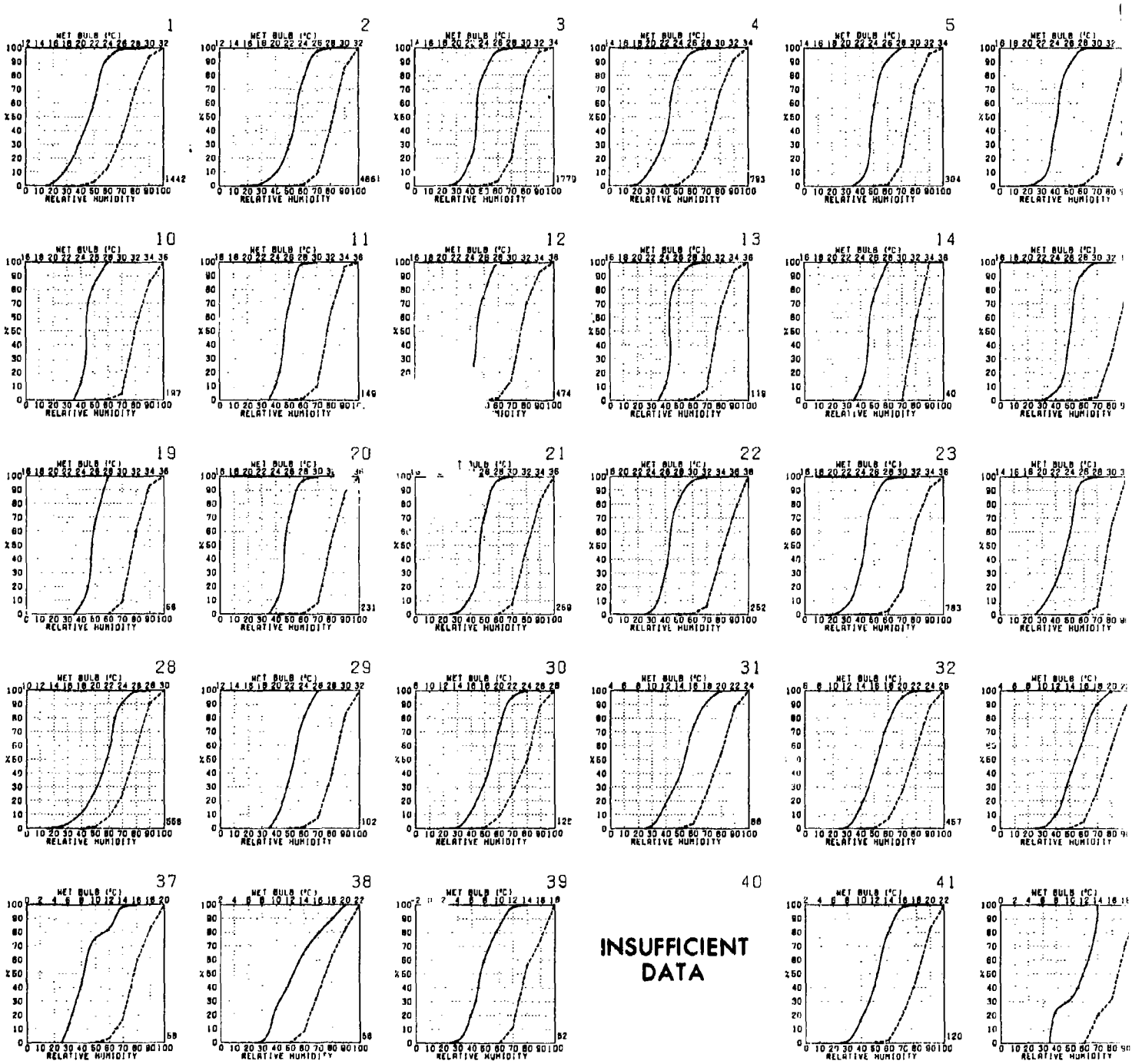
WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
2333
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

WET BULB AND RELATIVE HUMIDITY



INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

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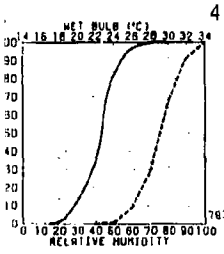

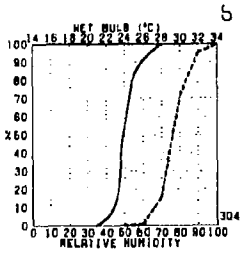

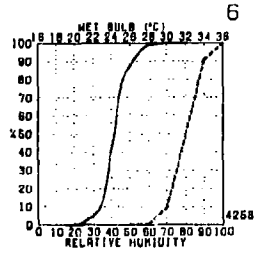

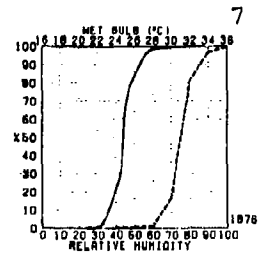

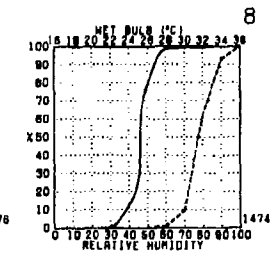

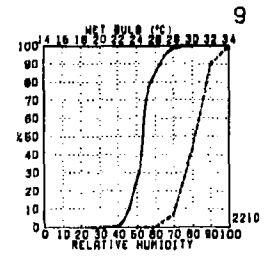

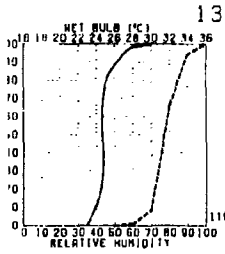

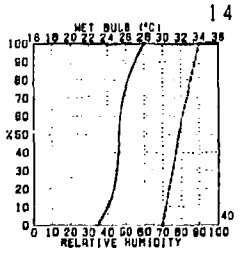

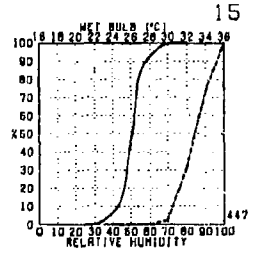

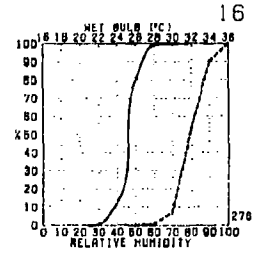

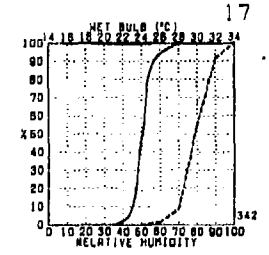

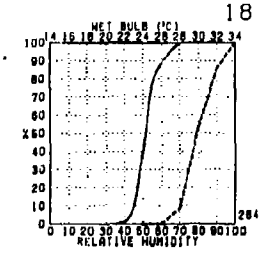

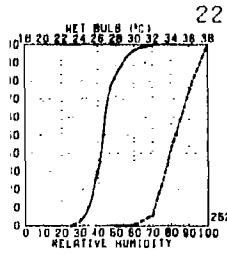

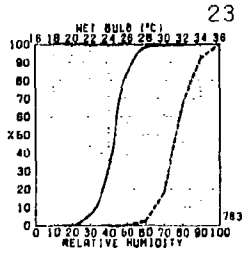

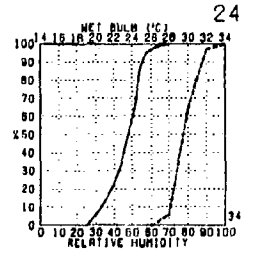

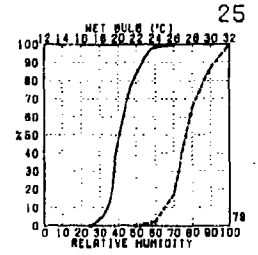

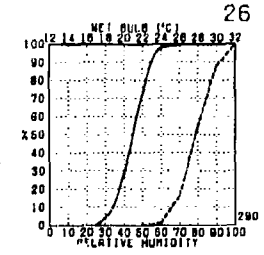

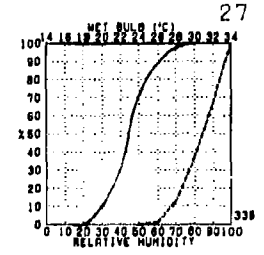

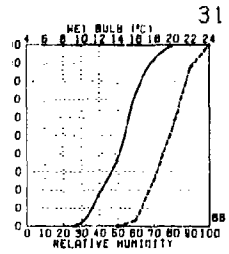

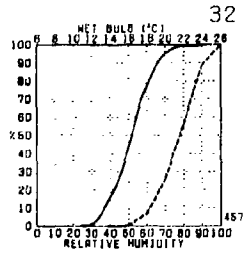

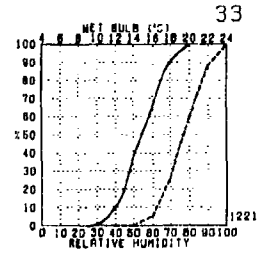

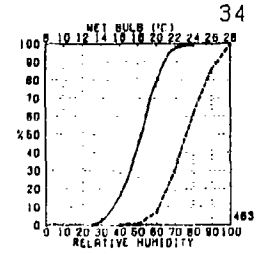

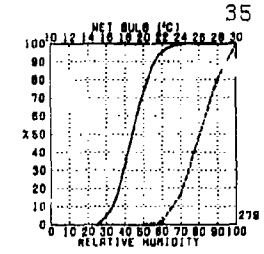

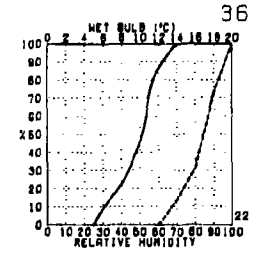

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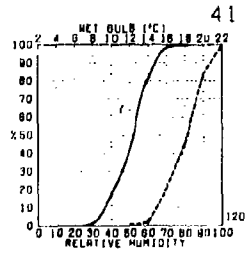

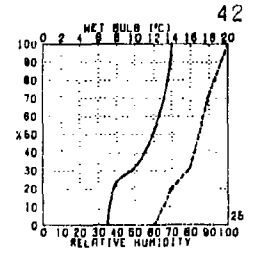

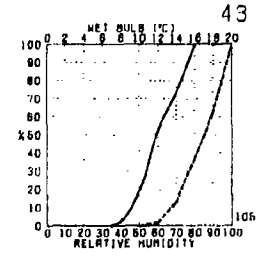

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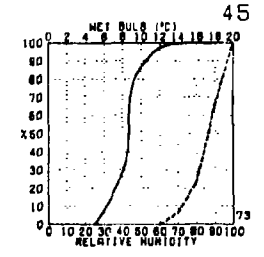

ctive compilation of available data for specified areas without regard to suspected biases.
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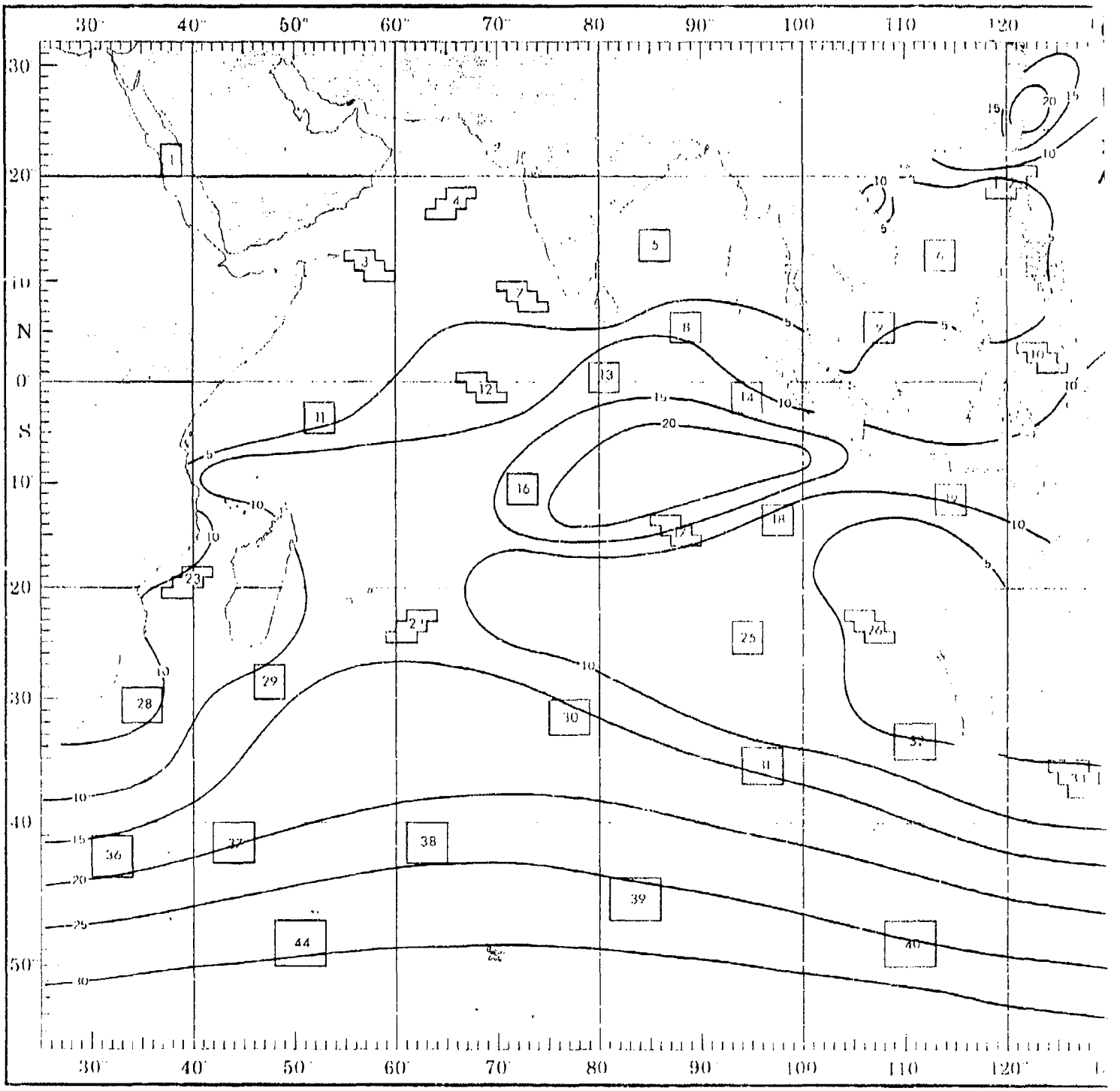
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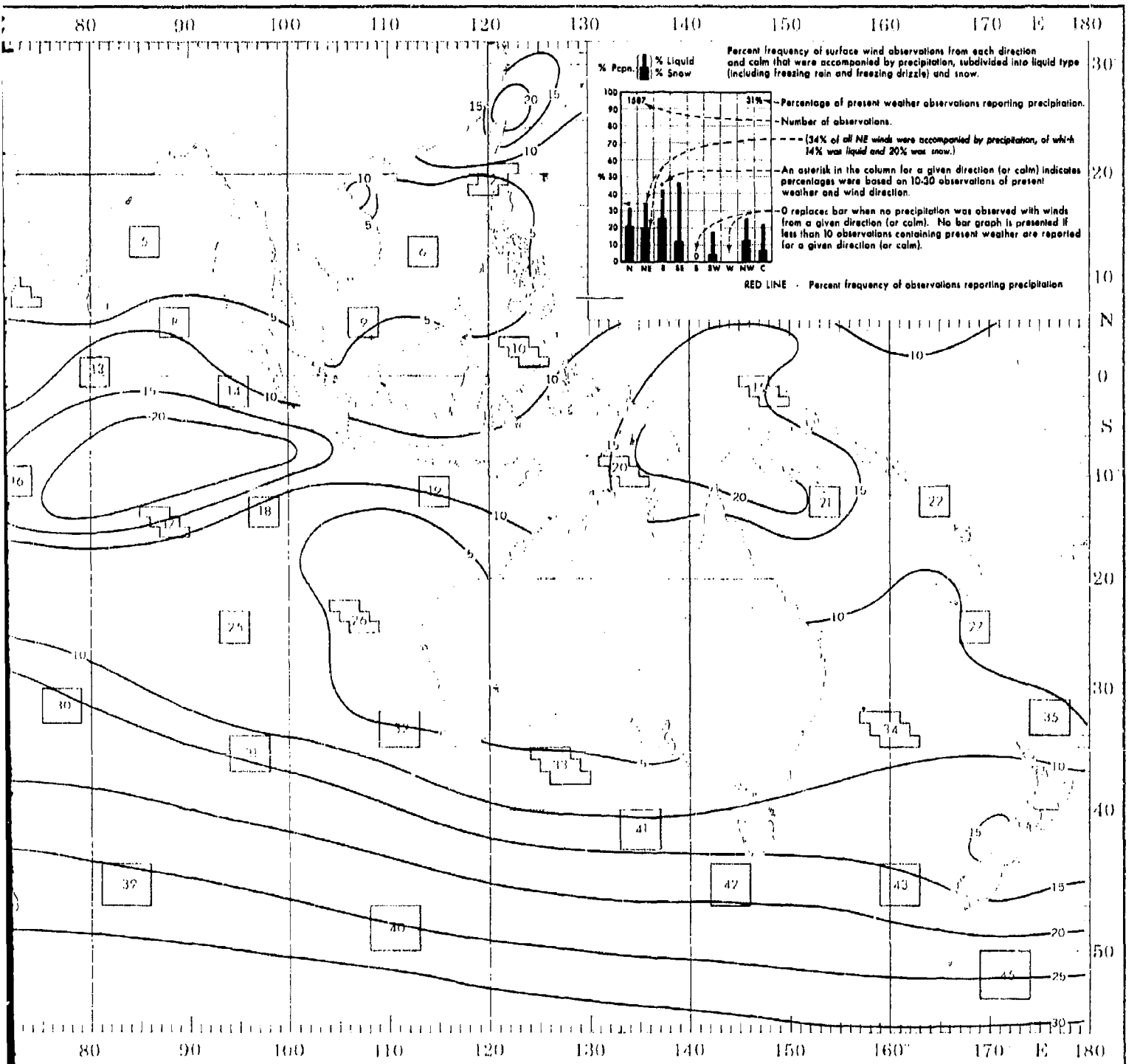
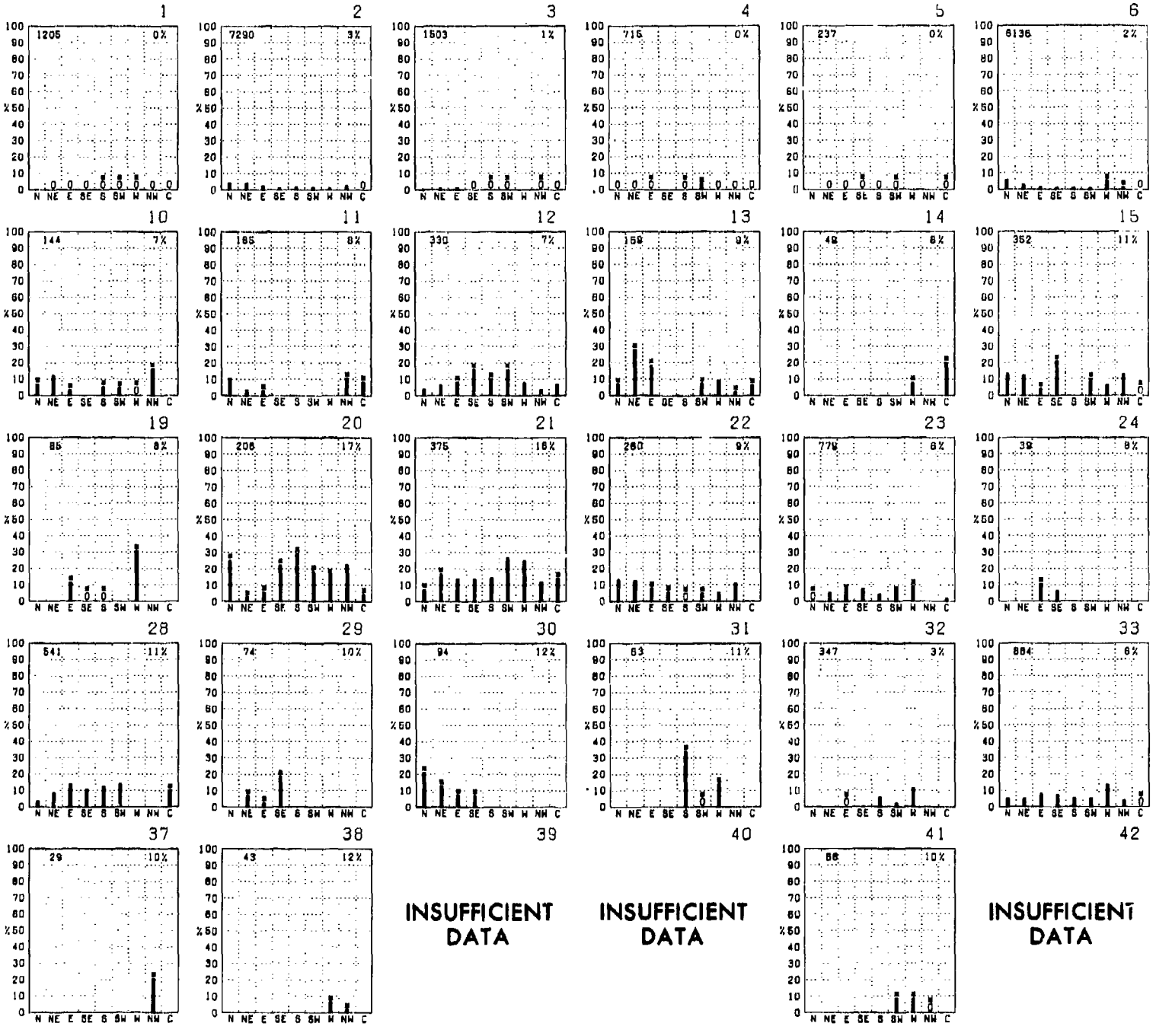
PRECIPITATION



PRECIPITATION



Graphs represent the objective compilation of available data for specified areas without regar
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

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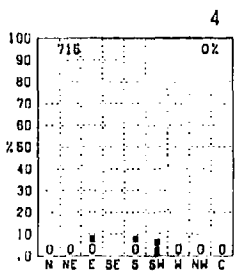
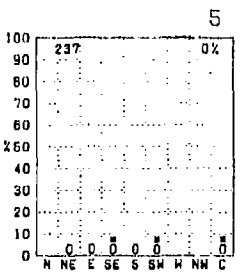
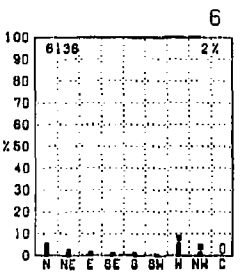
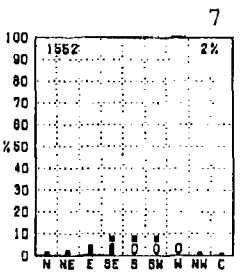
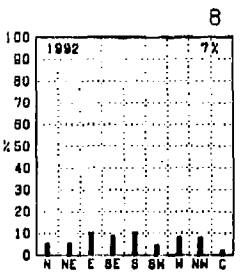
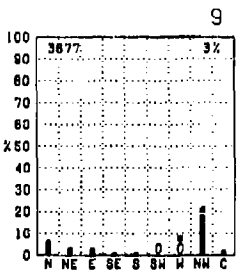


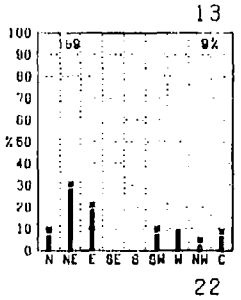


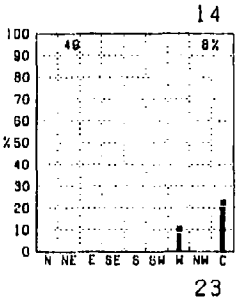


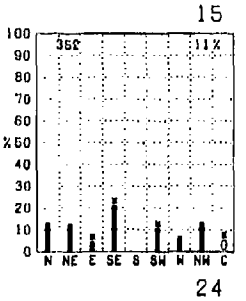


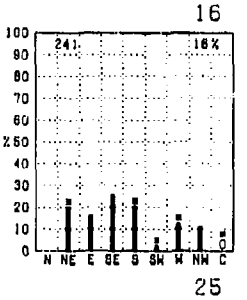


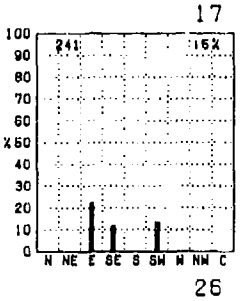


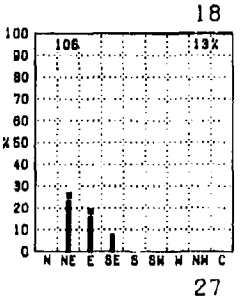


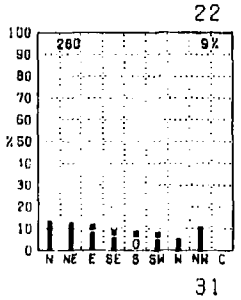


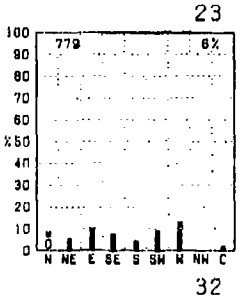


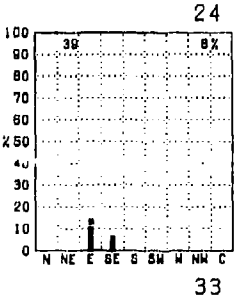


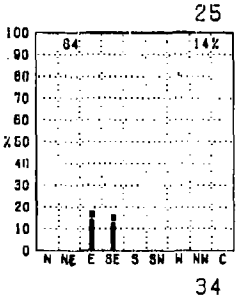


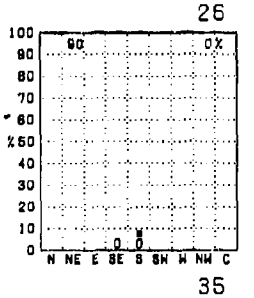


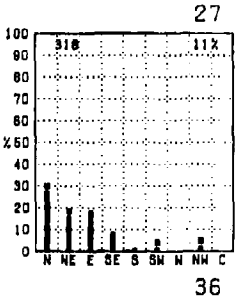


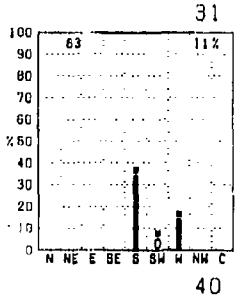


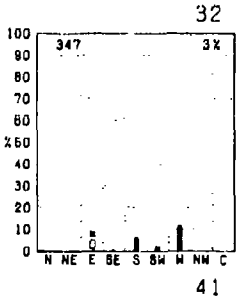


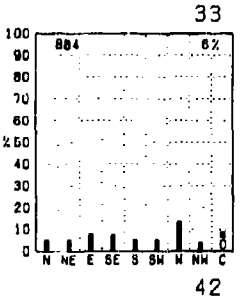


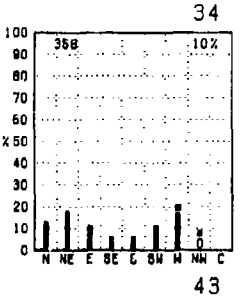


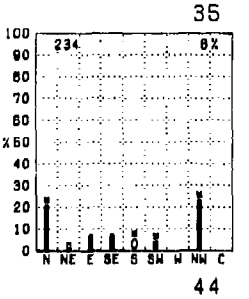










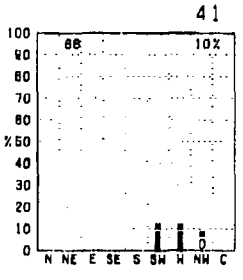


36

INSUFFICIENT DATA

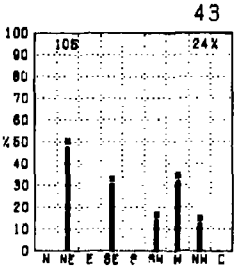
40

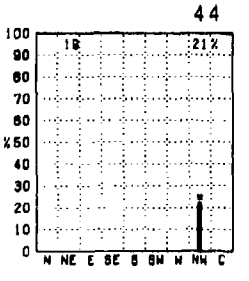
INSUFFICIENT DATA

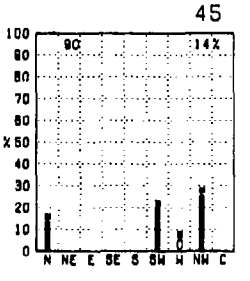


42

INSUFFICIENT DATA







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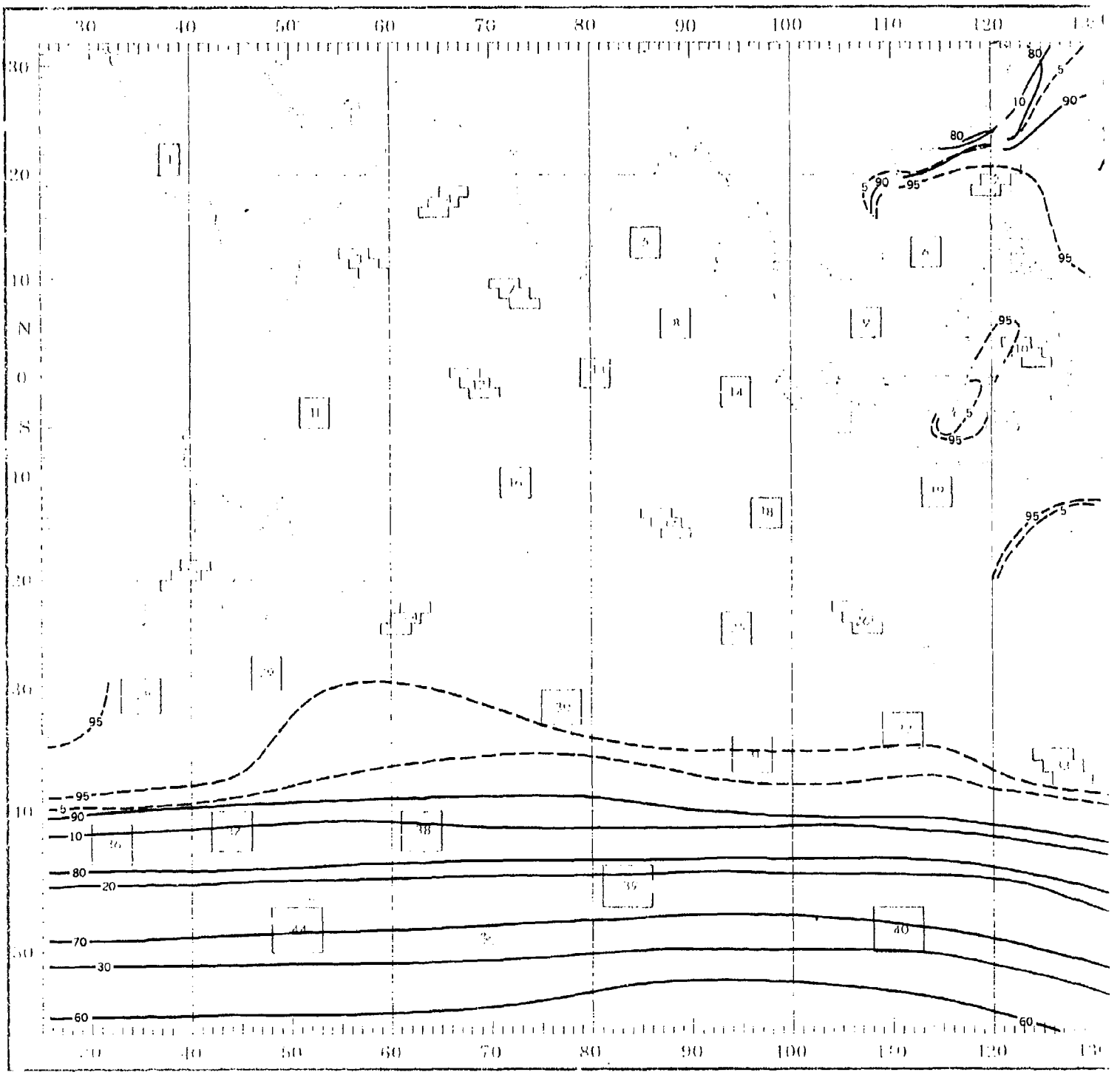
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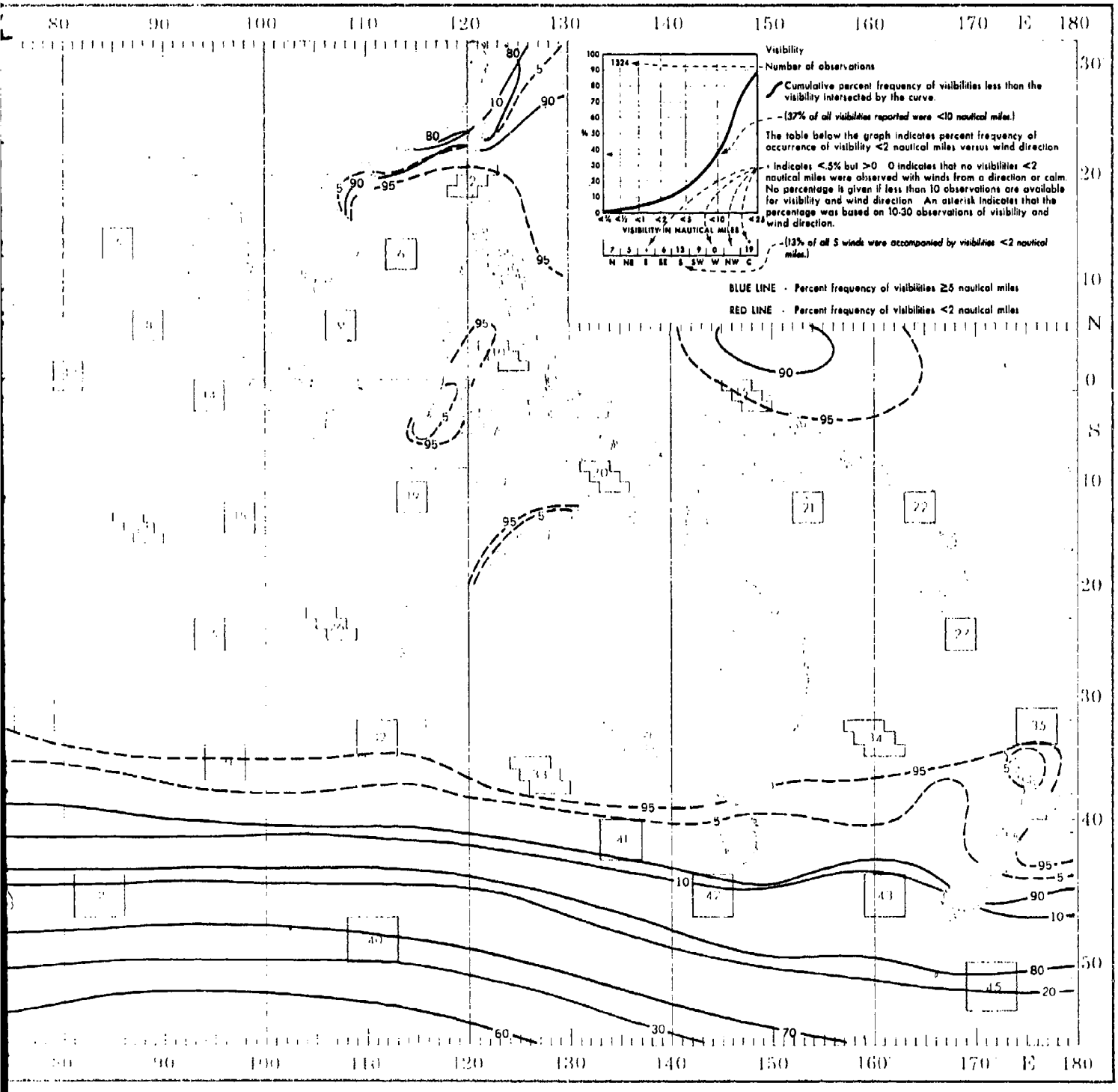
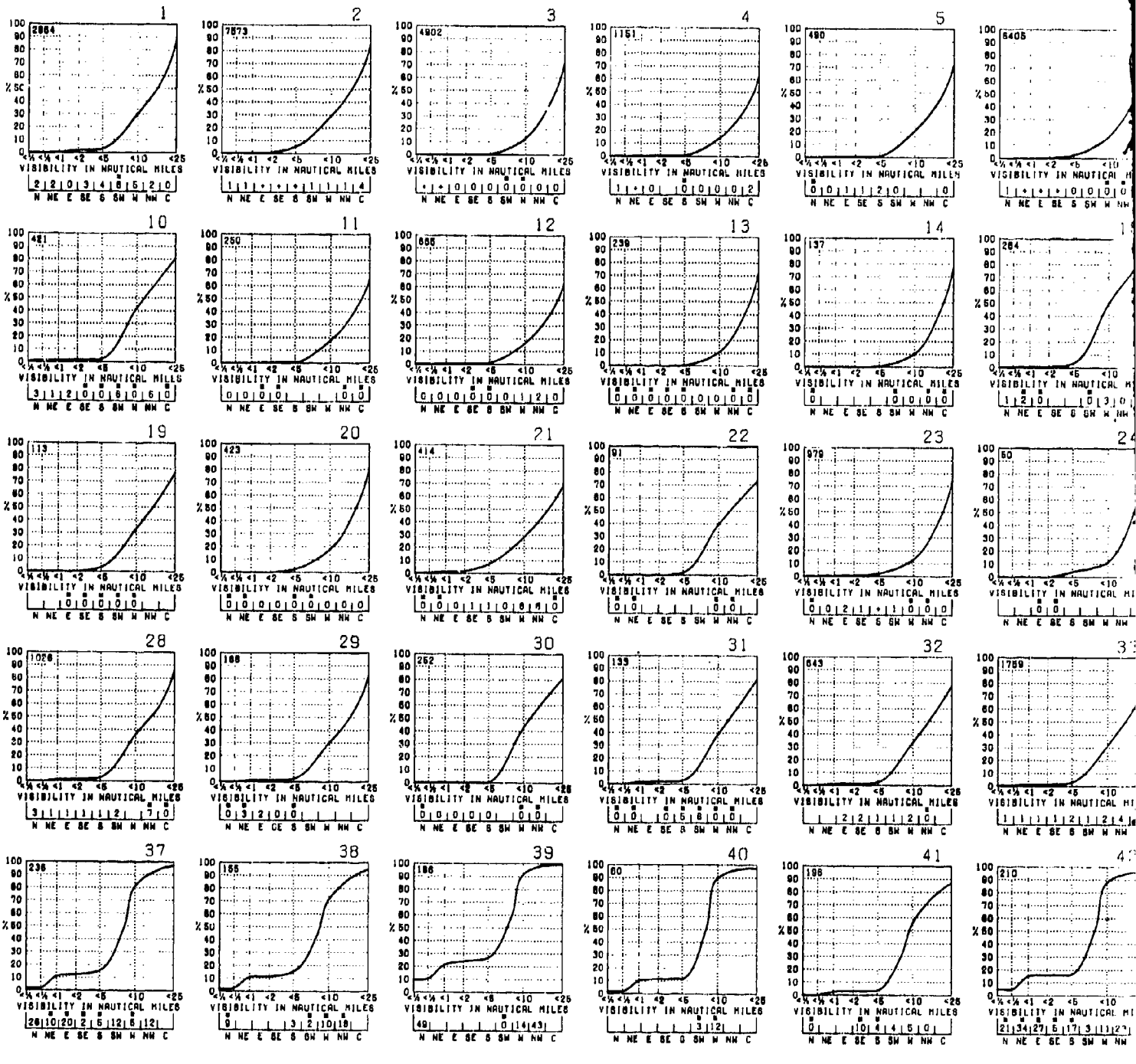
VISIBILITY


Visibility
Number of observations
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction
- indicates <.5% but >0 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

VISIBILITY



Graphs represent the objective compilation of available data for specified areas without
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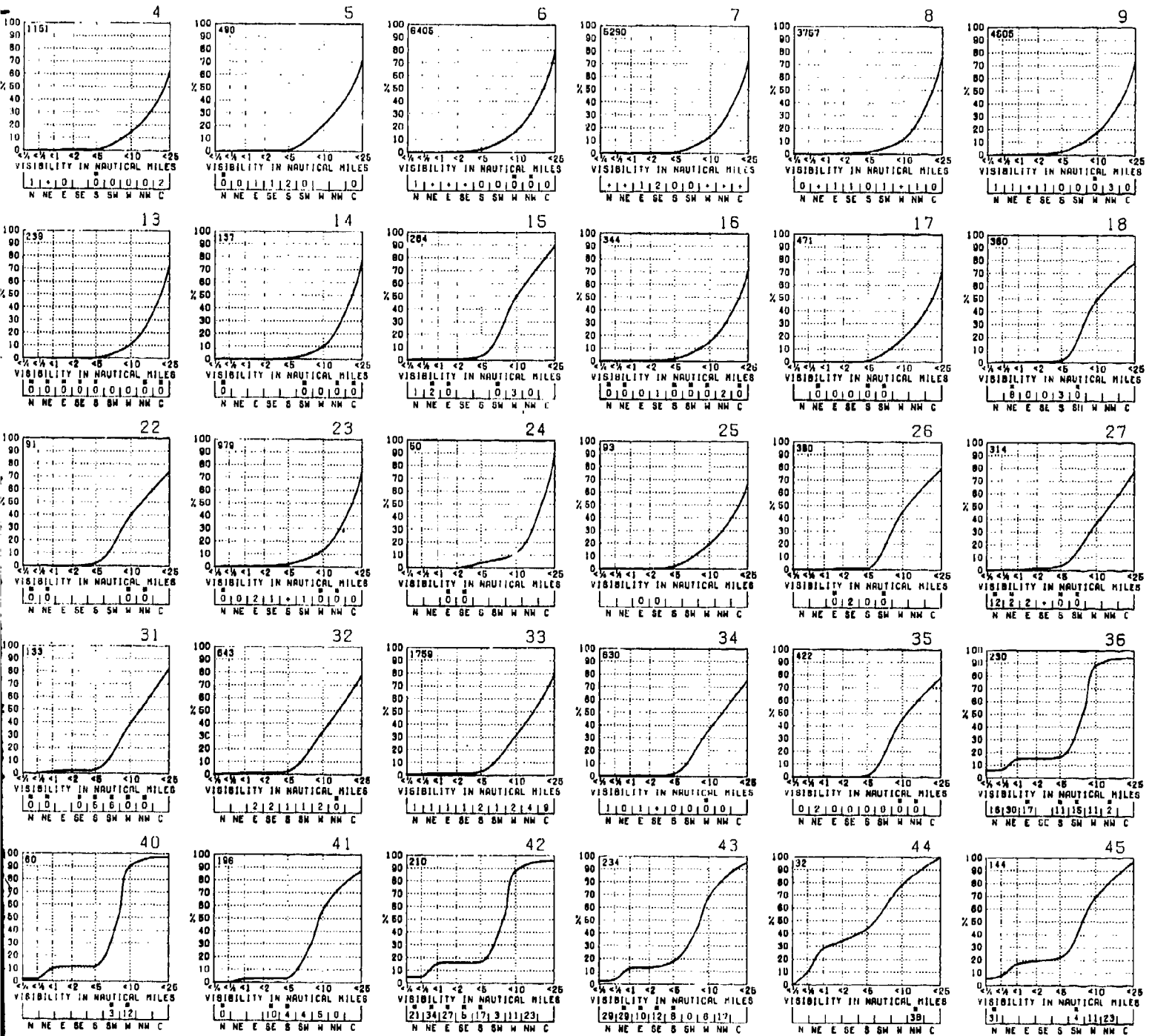

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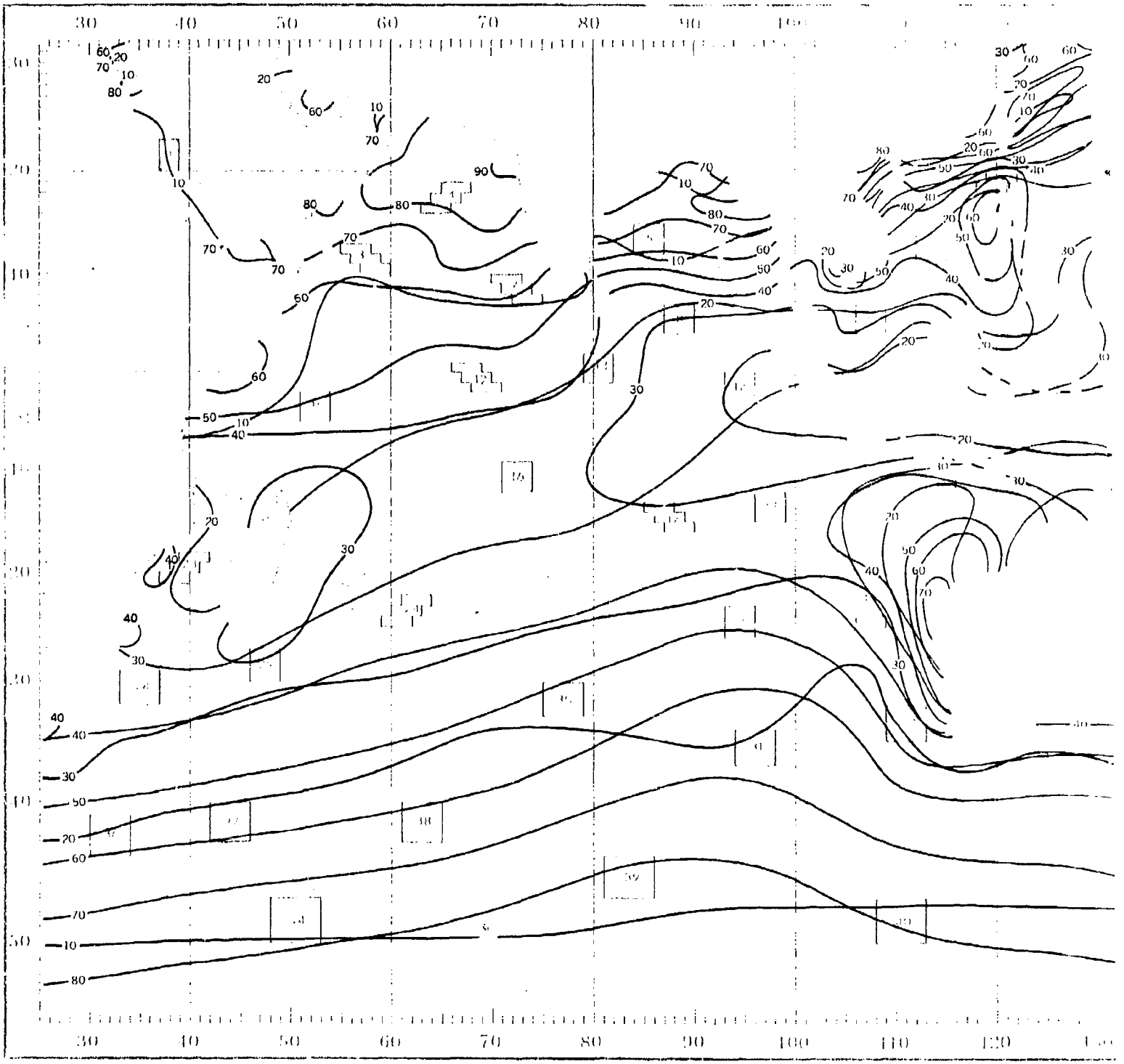
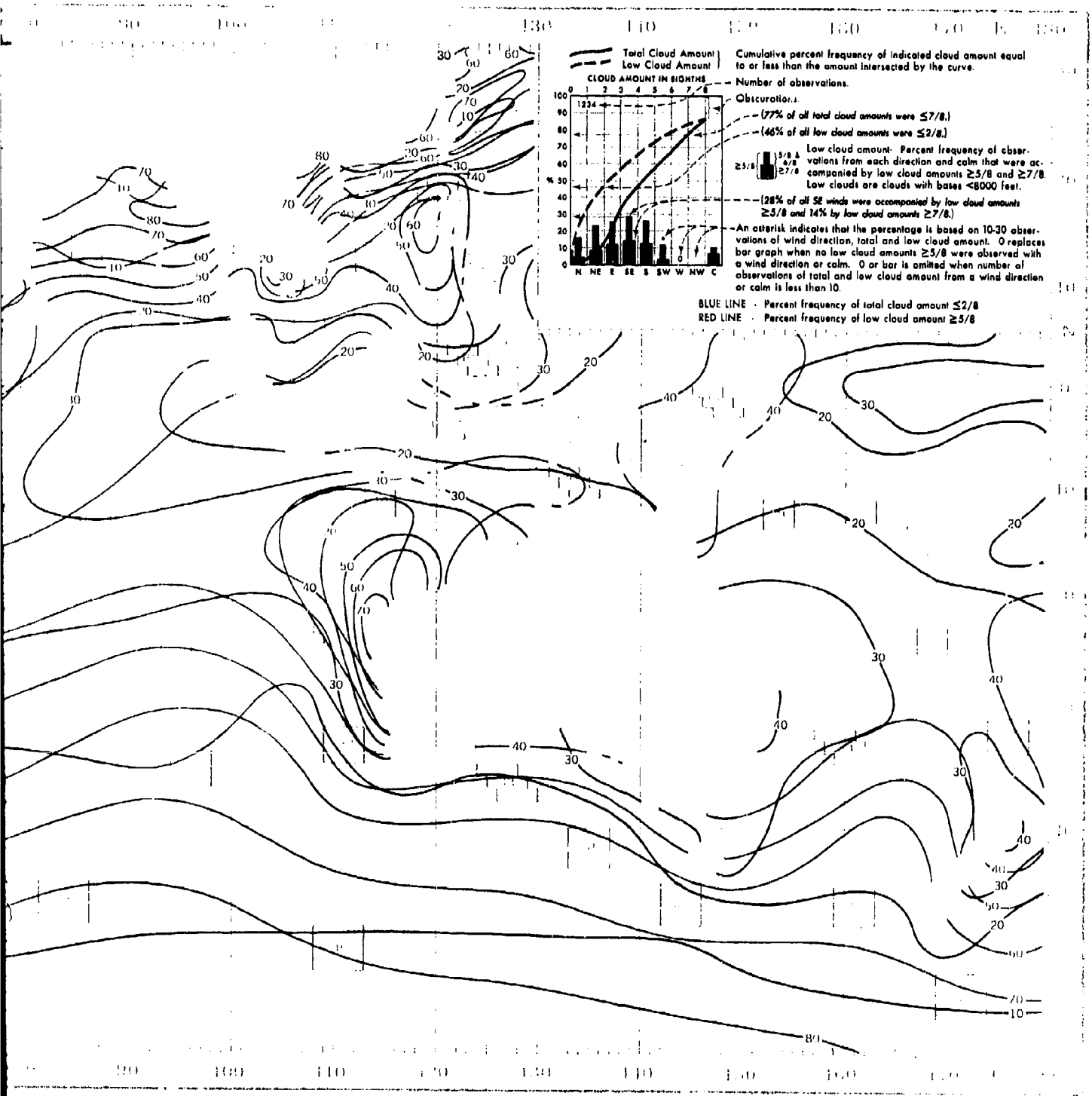
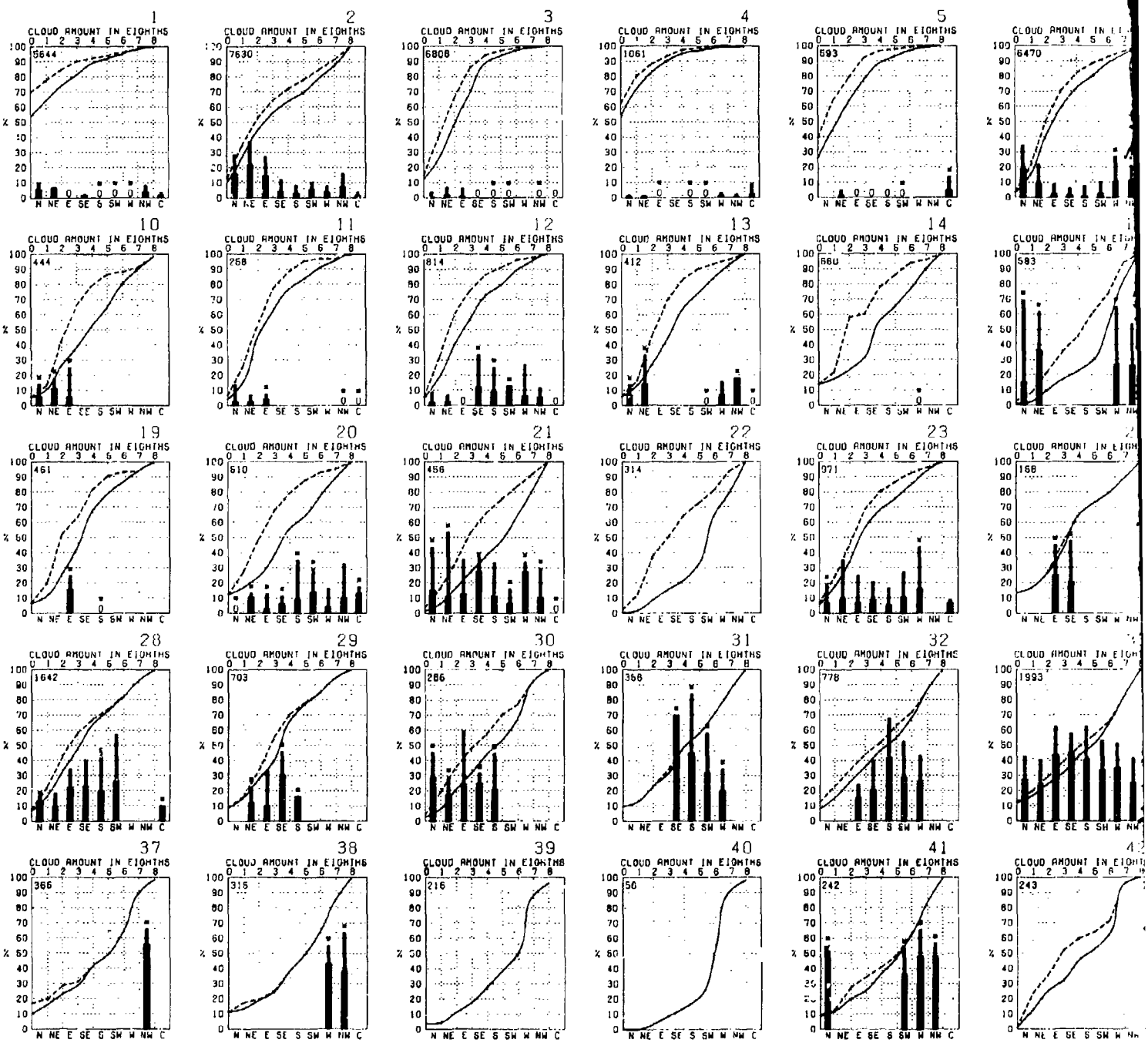


CLOUD COVER


Total Cloud Amount
Low Cloud Amount
CLOUD AMOUNT IN EIGHTHS
0 1 2 3 4 5 6 7 8
Number of observations.
Obscuration.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5/8
5/8 ▲ 6/8
≥7/8
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C

CLOUD COVER



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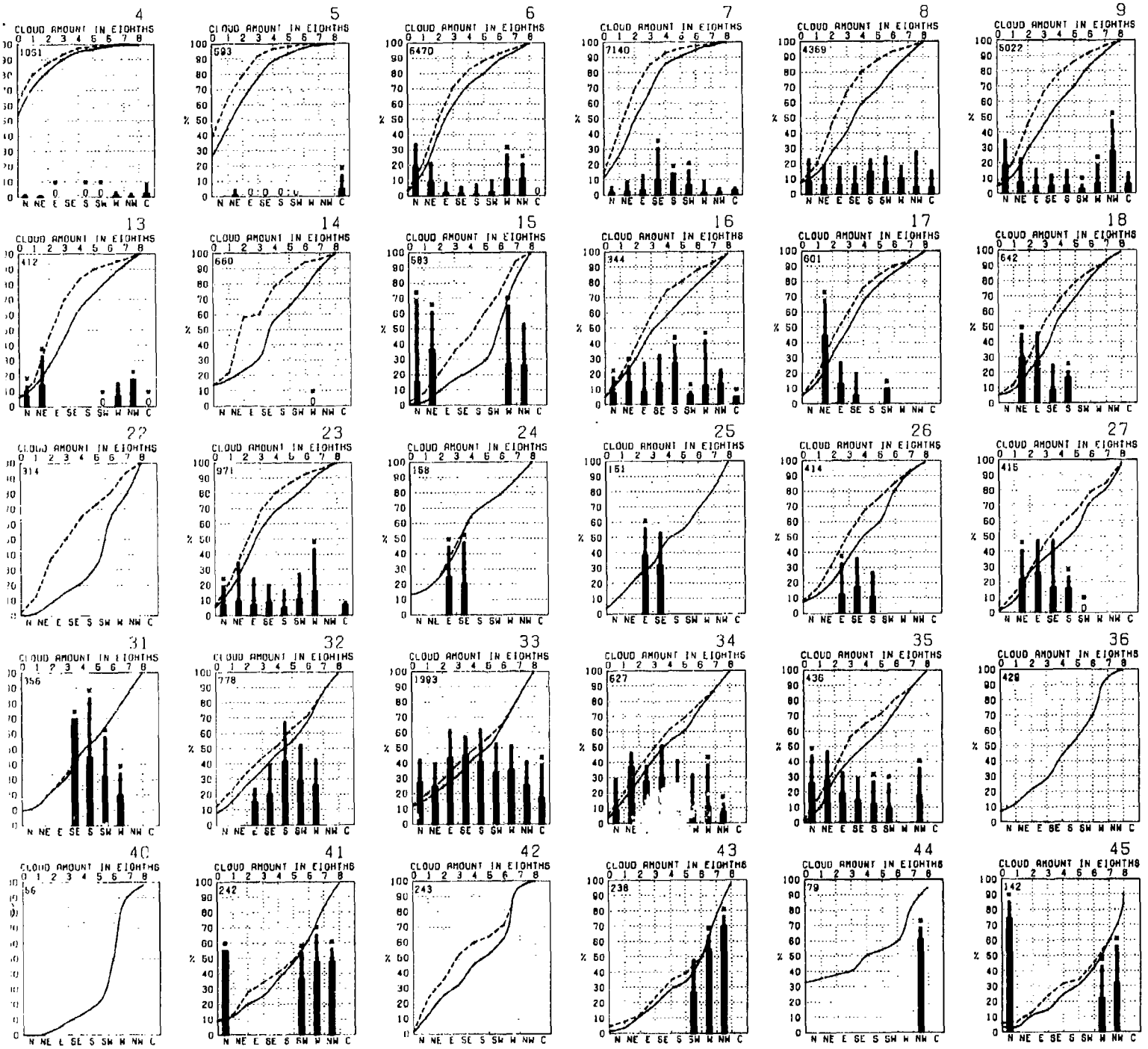

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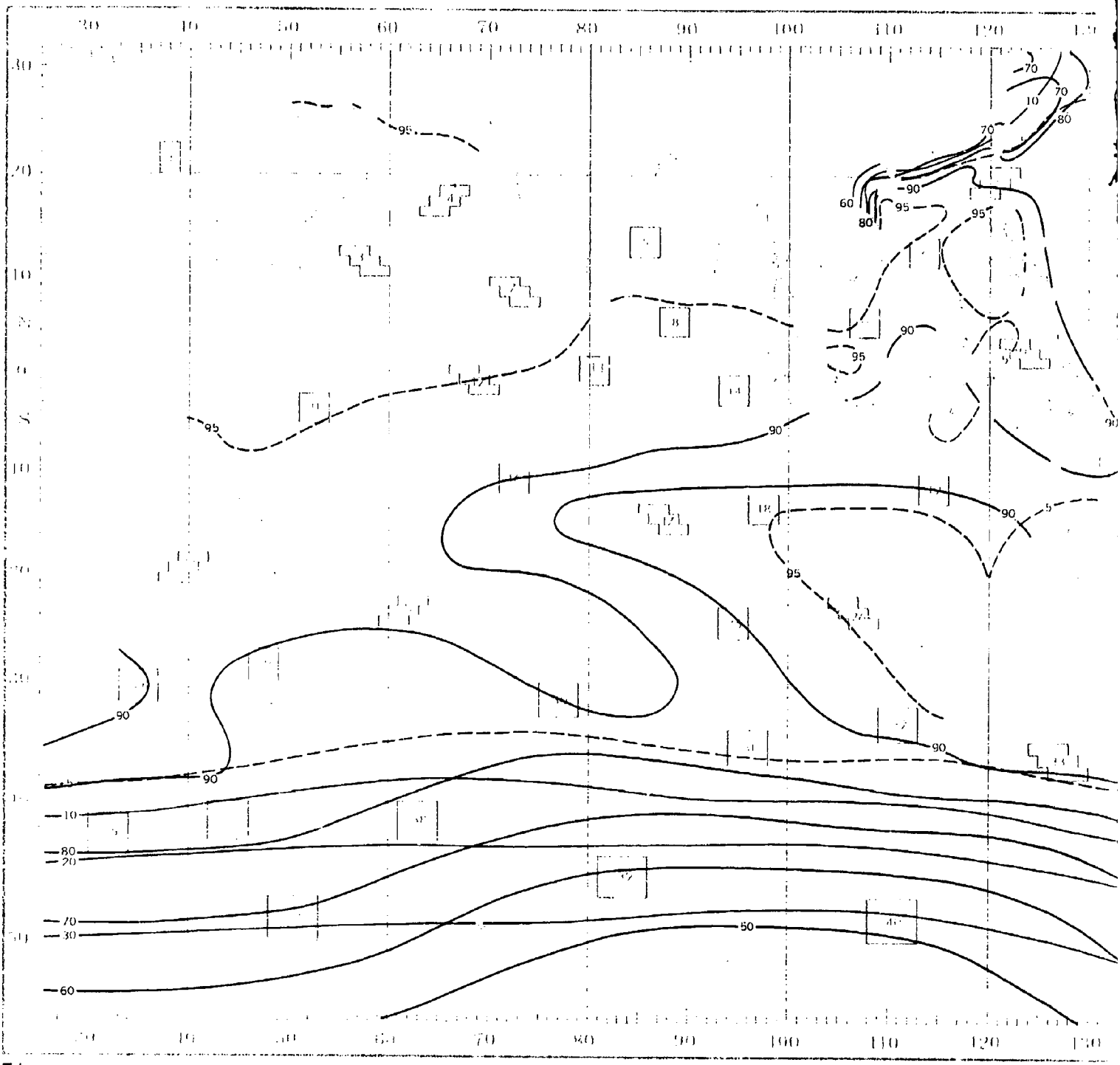
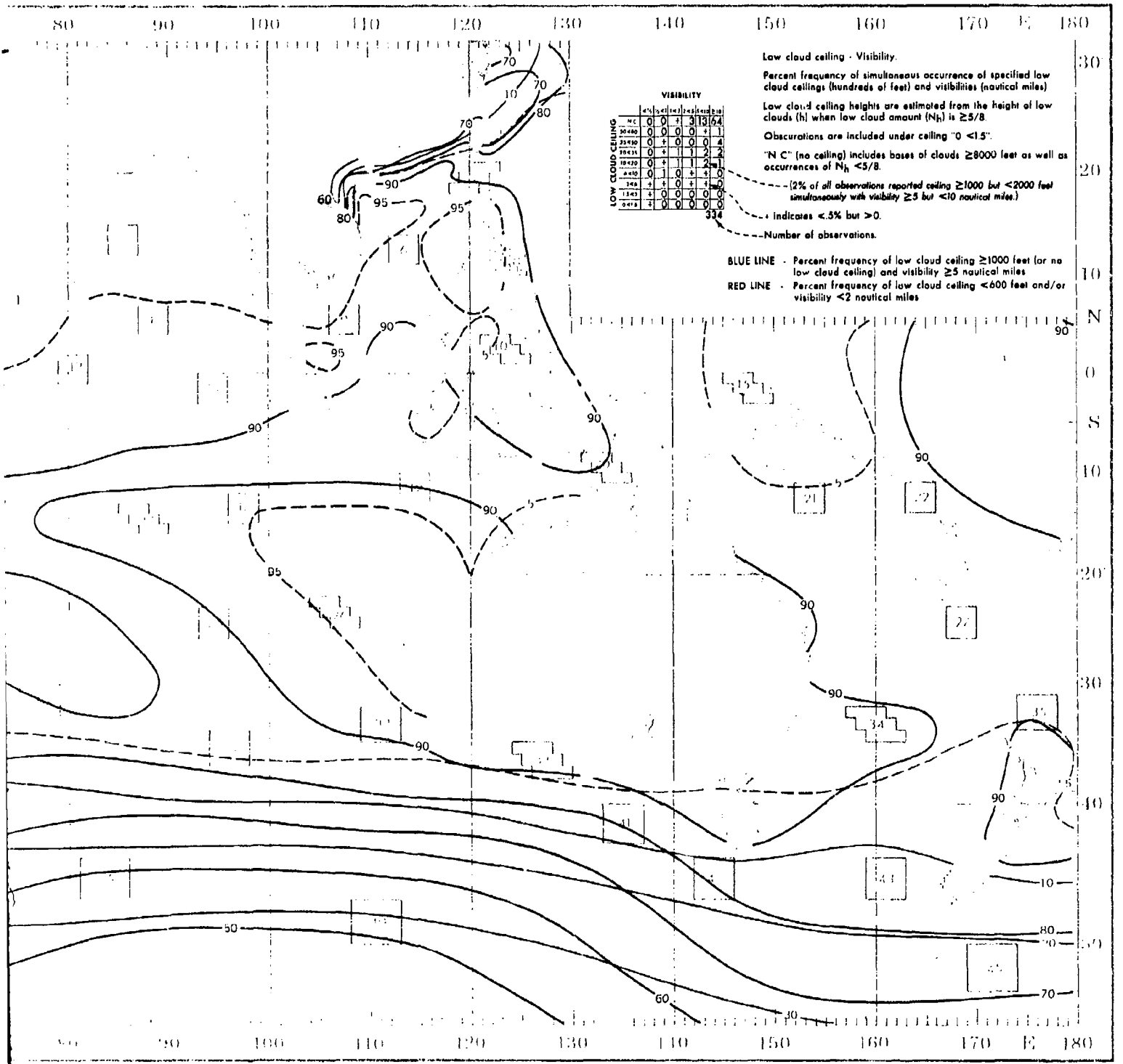
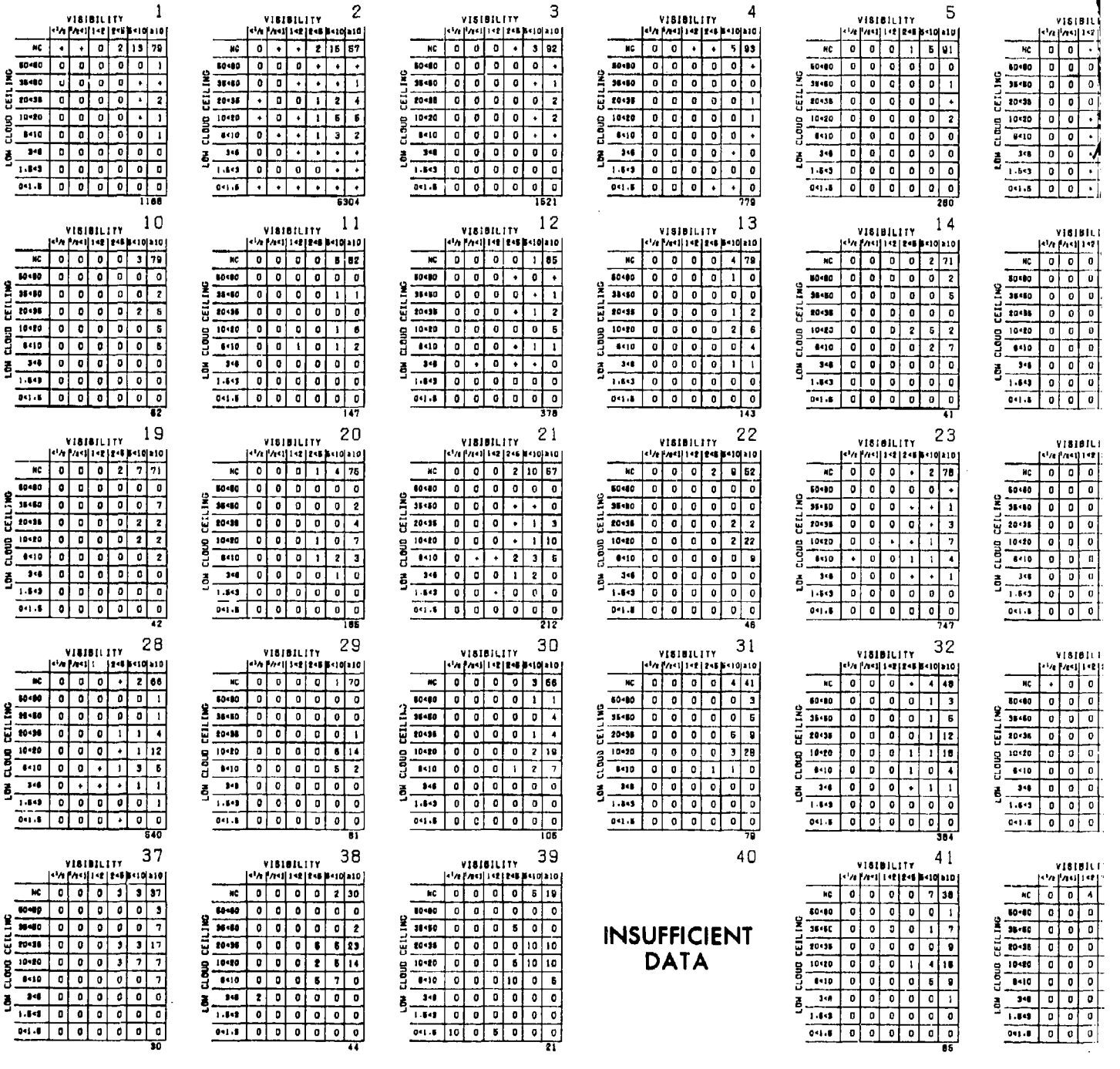


CEILING AND VISIBILITY



CEILING AND VISIBILITY



Graphs represent the objective compilation of available data for specified areas wi
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4

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	+	+	5	93
50+00	0	0	0	0	0	+
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	1
10+20	0	0	0	0	0	1
5+10	0	0	0	0	0	+
3+5	0	0	0	0	+	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	+	0

779

5

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	1	5	91
50+00	0	0	0	0	0	0
35+50	0	0	0	0	0	1
20+35	0	0	0	0	0	+
10+20	0	0	0	0	0	2
5+10	0	0	0	0	0	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

260

6

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	+	1	10	72
50+00	0	0	0	0	+	+
35+50	0	0	0	+	+	+
20+35	0	0	0	+	1	3
10+20	0	0	0	+	2	5
5+10	0	0	+	+	2	2
3+5	0	0	+	+	+	+
1.5+3	0	0	+	+	+	+
0+1.5	0	0	+	+	+	+

6428

7

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	+	3	90
50+00	0	0	0	0	+	+
35+50	0	0	0	0	+	1
20+35	0	0	0	0	+	2
10+20	0	0	0	0	+	2
5+10	0	0	0	0	+	1
3+5	0	0	0	+	0	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	0	0

1647

8

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	1	4	78
50+00	0	0	0	0	+	+
35+50	0	0	0	0	+	1
20+35	0	0	0	+	+	5
10+20	0	0	0	+	1	7
5+10	0	+	0	+	1	3
3+5	0	0	0	+	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	0	0

1527

9

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	+	1	9	89
50+00	0	0	0	0	+	+
35+50	0	0	0	+	+	1
20+35	0	0	0	+	2	3
10+20	0	0	0	+	3	6
5+10	0	0	0	1	2	2
3+5	0	0	+	+	+	+
1.5+3	0	0	0	0	+	+
0+1.5	0	0	+	0	+	+

2491

13

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	4	79
50+00	0	0	0	0	1	0
35+50	0	0	0	0	1	2
20+35	0	0	0	0	2	6
10+20	0	0	0	0	0	4
5+10	0	0	0	0	1	1
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

143

14

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	2	71
50+00	0	0	0	0	0	2
35+50	0	0	0	0	0	5
20+35	0	0	0	0	0	9
10+20	0	0	0	2	5	2
5+10	0	0	0	0	2	7
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

41

15

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	8	36
50+00	0	0	0	0	0	0
35+50	0	0	0	0	4	4
20+35	0	0	0	0	0	9
10+20	0	0	0	7	0	19
5+10	0	0	0	0	4	11
3+5	0	0	0	0	0	2
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

47

16

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	+	2	73
50+00	0	0	0	0	0	0
35+50	0	0	0	0	+	3
20+35	0	0	0	0	2	4
10+20	0	0	0	+	2	7
5+10	0	+	0	1	2	4
3+5	0	0	0	0	+	2
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	-

241

17

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	1	2	73
50+00	0	0	0	0	0	+
35+50	0	0	0	0	+	3
20+35	0	0	0	0	2	4
10+20	0	0	0	+	2	7
5+10	0	0	0	0	+	2
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	1	0
0+1.5	0	0	0	0	+	0

276

18

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	4	65
50+00	0	0	0	0	1	2
35+50	0	0	0	0	1	9
20+35	0	0	1	0	1	4
10+20	0	0	0	1	4	1
5+10	0	0	1	2	4	2
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

169

22

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	2	9	52
50+00	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	2	2
10+20	0	0	0	0	2	22
5+10	0	0	0	0	0	9
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

46

23

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	+	2	78
50+00	0	0	0	0	0	+
35+50	0	0	0	+	+	1
20+35	0	0	0	0	+	3
10+20	0	0	+	+	1	7
5+10	+	0	0	-	1	4
3+5	0	0	0	0	+	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

747

24

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	3	9	66
50+00	0	0	0	0	0	0
35+50	0	0	0	0	0	3
20+35	0	0	0	3	3	9
10+20	0	0	0	0	3	18
5+10	0	0	0	0	0	3
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

34

25

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	1	40
50+00	0	0	0	0	0	1
35+50	0	0	0	0	1	9
20+35	0	0	0	0	1	12
10+20	0	0	0	1	3	15
5+10	0	0	0	1	1	10
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

67

26

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	4	64
50+00	0	0	0	0	0	3
35+50	0	0	0	0	0	6
20+35	0	0	0	0	4	9
10+20	0	0	0	0	1	4
5+10	0	0	0	0	1	3
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

171

27

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	1	59
50+00	0	0	0	0	0	1
35+50	0	0	0	0	0	2
20+35	0	0	0	0	1	3
10+20	0	0	1	0	3	12
5+10	0	0	0	1	3	12
3+5	0	0	0	0	0	2
1.5+3	0	0	0	1	0	1
0+1.5	0	0	0	0	0	0

101

31

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	4	41
50+00	0	0	0	0	0	3
35+50	0	0	0	0	0	6
20+35	0	0	0	0	6	9
10+20	0	0	0	0	3	29
5+10	0	0	0	1	1	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

79

32

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	+	4	48
50+00	0	0	0	0	1	3
35+50	0	0	0	0	1	5
20+35	0	0	0	0	1	12
10+20	0	0	0	1	1	18
5+10	0	0	0	1	0	4
3+5	0	0	0	+	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

384

33

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	+	0	0	+	3	48
50+00	0	0	0	0	+	2
35+50	0	0	0	+	+	8
20+35	0	0	0	0	1	13
10+20	0	0	0	+	2	14
5+10	0	0	0	+	1	6
3+5	0	0	0	+	+	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

1017

34

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	3	69
50+00	0	0	0	0	0	1
35+50	0	0	0	0	0	3
20+35	0	0	0	0	+	7
10+20	0	0	0	1	3	15
5+10	0	+	0	1	3	5
3+5	0	0	0	0	+	+
1.5+3	0	0	0	0	0	1
0+1.5	0	0	0	0	0	0

362

35

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	+	5	81
50+00	0	0	0	0	0	1
35+50	0	0	0	0	0	2
20+35	0	0	0	0	0	6
10+20	0	0	0	+	6	9
5+10	0	0	0	+	6	3
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

216

36

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	0	42
50+00	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	3	0	0
10+20	0	0	0	0	0	18
5+10	0	0	0	0	10	23
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

31

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	7	38
50+00	0	0	0	0	0	1
35+50	0	0	0	0	0	7
20+35	0	0	0	0	0	9
10+20	0	0	0	1	4	15
5+10	0	0	0	0	5	9
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

85

42

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	4	4	32	24
50+00	0	0	0	0	0	0
35+50	0	0	0	0	0	12
20+35	0	0	0	0	0	12
10+20	0	0	0	0	0	12
5+10	0	0	0	0	0	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

25

43

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	1	0	0	0	7	28
50+00	0	0	0	0	2	0
35+50	0	0	0	0	2	5
20+35	0	0	0	0	5	6
10+20	0	0	0	0	6	12
5+10	0	0	0	6	6	6
3+5	0	0	0	0	4	0
1.5+3	0	0	0	1	0	0
0+1.5	2	1	0	1	0	0

103

44

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	6	21
50+00	0	0	0	0	0	6
35+50	0	0	0	0	0	0
20+35	0	0	0	0	16	0
10+20	0	0	5	11	0	11
5+10	0	0	0	0	0	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	16	6	0	6	0	0

19

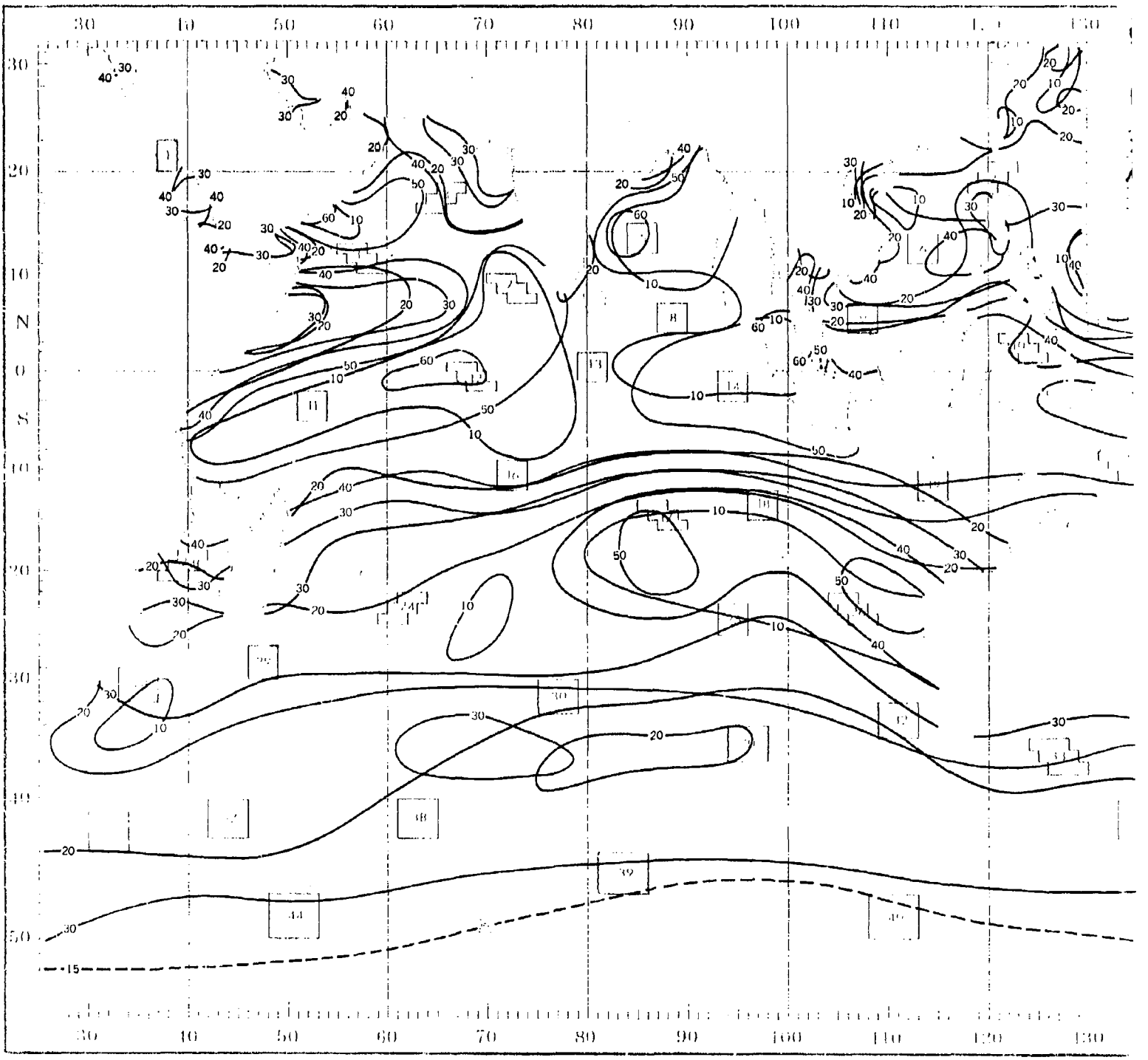
45

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-2	2-<5	5-<10	≥10
NC	0	0	0	0	7	25
50+00	0	0	0	0	0	1
35+50	0	0	0	0	1	1
20+35	0	0	0	1	14	6
10+20	0	1	0	0	8	9
5+10	0	1	0	3	2	3
3+5	0	0	2	0	0	0
1.5+3	1	0	0	0	0	0
0+1.5	8	3	1	0	0	0

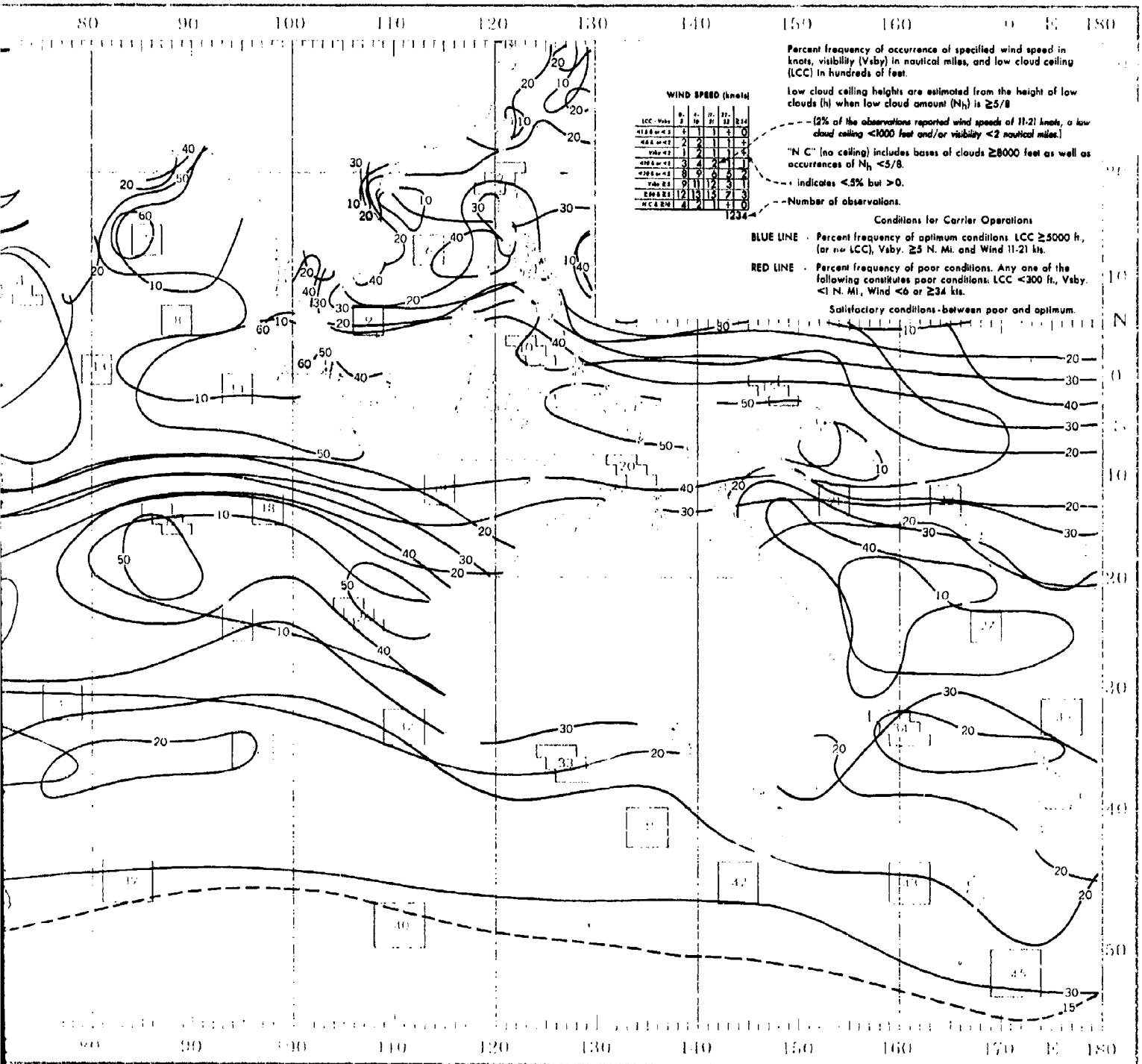
88

tive compilation of available data for specified areas without regard to suspected biases.
psite page) are based on all available data subjectively adjusted where bias was evident.

MARCH



WIND-VISIBILITY-CLOUDINESS



Percent frequency of occurrence of specified wind speed in knots, visibility (Vsby) in nautical miles, and low cloud ceiling (LCC) in hundreds of feet.

Low cloud ceiling heights are estimated from the height of low clouds (h) when low cloud amount (N_h) is ≥5/8

WIND SPEED (knots)

LCC - Vsby	0-3	4-10	11-21	22-33	≥34
<1 & ≥ ½ or <½	+	1	1	+	0
<6 & ≥1 or <1	2	2	1	1	+
Vsby <1	1	2	1	1	+
<30 & ≥ <6	3	4	2	1	+
<30 & ≥ <3	8	9	6	3	2
Vsby ≥3	9	11	12	4	1
C & ≥30	12	15	15	7	3
NC & ≥30	4	2	1	+	0
			1234		

(2% of the observations reported wind speeds of 11-21 knots, a low cloud ceiling <1000 feet and/or visibility <2 nautical miles.)

"N C" (no ceiling) includes bases of clouds ≥8000 feet as well as occurrences of N_h <5/8.

+ indicates <.5% but >0.

Number of observations.

Conditions for Carrier Operations

BLUE LINE - Percent frequency of optimum conditions: LCC ≥5000 ft., (or no LCC), Vsby. ≥5 N. Mi. and Wind 11-21 kts.

RED LINE - Percent frequency of poor conditions. Any one of the following constitutes poor conditions: LCC <300 ft., Vsby. <1 N. Mi., Wind <6 or ≥34 kts.

Satisfactory conditions - between poor and optimum.

LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<8 & OR <2	0	+	0	0	+
VSBY <2	0	+	0	0	+
<10 & OR <2	0	+	1	0	+
<20 & OR <5	+	1	3	+	+
VSBY ≥5	11	31	47	8	+
≥80 & ≥5	11	30	44	9	+
NC & ≥10	8	24	39	7	+

1156

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	0
<8 & OR <2	+	+	1	1	+
VSBY <2	+	+	+	+	+
<10 & OR <2	+	1	3	3	+
<20 & OR <5	1	3	8	8	1
VSBY ≥5	7	30	41	16	1
≥80 & ≥5	7	28	30	8	1
NC & ≥10	5	22	24	5	+

6271

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	+	+	0	0
<20 & OR <5	+	2	1	+	0
VSBY ≥5	12	68	19	+	0
≥80 & ≥5	12	66	17	+	0
NC & ≥10	11	64	16	+	0

1499

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<8 & OR <2	0	+	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	+	+	+	0	0
<20 & OR <5	+	1	+	0	0
VSBY ≥5	16	64	20	+	0
≥80 & ≥5	15	63	20	+	0
NC & ≥10	14	60	19	+	0

761

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	+	2	+	0	0
VSBY ≥5	27	68	5	0	0
≥80 & ≥5	25	67	4	0	0
NC & ≥10	22	66	4	0	0

252

WIND SPEED (K

LCC - VSBY	0-3	4-10	11-21
<1.5 & OR <.5	0	+	+
<8 & OR <2	+	+	1
VSBY <2	0	+	+
<10 & OR <2	+	1	3
<20 & OR <5	+	4	7
VSBY ≥5	4	46	41
≥80 & ≥5	4	42	33
NC & ≥10	3	39	28

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	0	0
<20 & OR <5	0	5	5	0	0
VSBY ≥5	18	52	32	0	0
≥80 & ≥5	16	40	28	0	0
NC & ≥10	16	39	24	0	0

62

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	2	1	0	0
<20 & OR <5	3	5	3	0	0
VSBY ≥5	21	66	12	0	0
≥80 & ≥5	18	60	10	0	0
NC & ≥10	18	57	9	0	0

146

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	+	0	1	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	1	1	1	0	0
<20 & OR <5	3	4	2	0	0
VSBY ≥5	33	60	6	0	0
≥80 & ≥5	29	55	4	0	0
NC & ≥10	29	53	4	0	0

362

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	2	0	0
<20 & OR <5	1	9	4	0	0
VSBY ≥5	22	60	19	0	0
≥80 & ≥5	21	48	14	0	0
NC & ≥10	20	46	13	0	0

139

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	0	9	0	0
<20 & OR <5	3	8	14	0	0
VSBY ≥5	34	43	20	0	0
≥80 & ≥5	31	37	8	0	0
NC & ≥10	31	37	3	0	0

36

WIND SPEED (KI

LCC - VSBY	0-3	4-10	11-21
<1.5 & OR <.5	0	0	0
<8 & OR <2	0	0	2
VSBY <2	0	0	0
<10 & OR <2	0	11	7
<20 & OR <5	2	27	11
VSBY ≥5	20	62	25
≥80 & ≥5	18	16	9
NC & ≥10	15	11	7

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	0	0
<20 & OR <5	0	7	2	0	0
VSBY ≥5	12	67	19	0	0
≥80 & ≥5	12	52	14	0	0
NC & ≥10	12	45	14	0	0

42

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	2	1	0
<20 & OR <5	3	7	4	2	0
VSBY ≥5	21	69	16	2	0
≥80 & ≥5	17	48	11	2	0
NC & ≥10	16	45	11	2	0

182

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	+	1	2	+	0
VSBY <2	+	0	+	+	0
<10 & OR <2	+	7	6	2	0
<20 & OR <5	2	14	11	2	0
VSBY ≥5	13	48	26	3	0
≥80 & ≥5	12	34	19	2	0
NC & ≥10	11	27	18	1	0

211

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	7	0	2	0
<20 & OR <5	0	26	7	2	0
VSBY ≥5	13	61	22	2	0
≥80 & ≥5	13	35	13	0	0
NC & ≥10	13	28	11	0	0

46

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	+
<8 & OR <2	0	1	+	+	+
VSBY <2	0	+	0	0	+
<10 & OR <2	+	3	2	1	1
<20 & OR <5	1	8	4	3	1
VSBY ≥5	18	46	26	8	+
≥80 & ≥5	17	38	21	4	0
NC & ≥10	16	37	21	4	0

740

WIND SPEED (KI

LCC - VSBY	0-3	4-10	11-21
<1.5 & OR <.5	0	0	0
<8 & OR <2	0	0	0
VSBY <2	0	0	0
<10 & OR <2	0	0	3
<20 & OR <5	0	3	24
VSBY ≥5	3	26	47
≥80 & ≥5	3	24	26
NC & ≥10	3	24	26

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	+
<8 & OR <2	+	1	1	0	1
VSBY <2	0	0	+	0	+
<10 & OR <2	1	3	5	1	1
<20 & OR <5	2	7	12	3	1
VSBY ≥5	8	36	47	7	1
≥80 & ≥5	5	27	33	4	0
NC & ≥10	4	26	32	3	0

540

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	5	0
<20 & OR <5	0	5	15	7	0
VSBY ≥5	2	31	53	14	0
≥80 & ≥5	2	26	37	8	0
NC & ≥10	2	26	37	5	0

81

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	6	2	0
<20 & OR <5	1	8	19	2	0
VSBY ≥5	3	61	38	7	0
≥80 & ≥5	2	40	14	4	0
NC & ≥10	2	38	13	3	0

104

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	0	0	0
<20 & OR <5	4	17	15	1	0
VSBY ≥5	8	44	39	9	0
≥80 & ≥5	3	18	22	5	0
NC & ≥10	3	17	18	3	0

77

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	1	3	2	1
<20 & OR <5	1	7	13	5	1
VSBY ≥5	4	35	48	10	1
≥80 & ≥5	3	20	28	6	+
NC & ≥10	3	18	23	3	+

379

WIND SPEED (KN

LCC - VSBY	0-3	4-10	11-21
<1.5 & OR <.5	+	+	0
<8 & OR <2	+	1	+
VSBY <2	+	+	0
<10 & OR <2	+	1	5
<20 & OR <5	1	10	12
VSBY ≥5	5	41	43
≥80 & ≥5	3	21	23
NC & ≥10	2	18	20

37

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	7	0	0
<20 & OR <5	0	3	17	10	0
VSBY ≥5	0	37	37	13	3
≥80 & ≥5	0	30	7	3	3
NC & ≥10	0	30	3	3	0

30

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	2	0
<8 & OR <2	0	0	0	2	0
VSBY <2	0	0	0	2	0
<10 & OR <2	0	2	5	7	0
<20 & OR <5	0	7	18	14	0
VSBY ≥5	0	41	32	14	0
≥80 & ≥5	0	18	11	2	0
NC & ≥10	0	18	11	0	0

44

39

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	5	5	5	0
<8 & OR <2	0	5	5	5	0
VSBY <2	0	5	5	5	0
<10 & OR <2	0	10	14	5	0
<20 & OR <5	0	14	29	14	0
VSBY ≥5	5	24	29	10	0
≥80 & ≥5	5	5	5	10	0
NC & ≥10	5	5	0	10	0

21

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	10	4	1	1
<20 & OR <5	0	20	10	5	2
VSBY ≥5	0	42	38	15	4
≥80 & ≥5	0	15	21	7	1
NC & ≥10	0	14	17	6	1

84

WIND SPEED (KN

LCC - VSBY	0-3	4-10	11-21
<1.5 & OR <.5	0	0	0
<8 & OR <2	0	0	0
VSBY <2	0	0	0
<10 & OR <2	0	0	0
<20 & OR <5	0	0	10
VSBY ≥5	0	14	57
≥80 & ≥5	0	10	43
NC & ≥10	0	10	5

Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

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MARCH

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<6 & OR <2	0	*	*	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	*	*	*	0	0
<20 & OR <5	*	1	*	0	0
VSBY ≥5	16	64	20	*	0
≥60 & ≥5	15	63	20	*	0
NC & ≥10	14	60	19	*	0

761

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	*	2	*	0	0
VSBY ≥5	27	68	5	0	0
≥60 & ≥5	25	67	4	0	0
NC & ≥10	22	65	4	0	0

262

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	*	0
<6 & OR <2	*	*	1	1	*
VSBY <2	0	*	*	*	*
<10 & OR <2	*	1	3	2	*
<20 & OR <5	*	4	7	3	*
VSBY ≥5	4	48	41	6	*
≥60 & ≥5	4	42	33	3	*
NC & ≥10	3	39	28	2	0

6418

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<6 & OR <2	0	0	*	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	1	*	*	0
<20 & OR <5	1	2	1	*	0
VSBY ≥5	28	67	5	*	0
≥60 & ≥5	25	63	5	*	0
NC & ≥10	24	61	5	*	0

1501

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	0	0
<6 & OR <2	0	*	*	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	1	3	1	0	0
<20 & OR <5	2	8	4	0	0
VSBY ≥5	19	60	20	*	0
≥60 & ≥5	16	49	16	0	0
NC & ≥10	16	46	14	0	0

1510

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	0	0
<6 & OR <2	*	*	1	*	0
VSBY <2	0	*	*	0	0
<10 & OR <2	1	2	3	1	*
<20 & OR <5	1	8	8	1	*
VSBY ≥5	13	60	33	2	*
≥60 & ≥5	11	42	25	1	*
NC & ≥10	11	38	19	*	*

2480

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	2	0	0
<20 & OR <5	1	9	4	0	0
VSBY ≥5	22	60	19	0	0
≥60 & ≥5	21	48	14	0	0
NC & ≥10	20	46	13	0	0

139

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	0	9	0	0
<20 & OR <5	3	8	14	0	0
VSBY ≥5	34	43	20	0	0
≥60 & ≥5	31	37	6	0	0
NC & ≥10	31	37	3	0	0

36

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	11	7	0	0
<20 & OR <5	2	27	11	0	0
VSBY ≥5	20	52	25	0	0
≥60 & ≥5	18	16	9	0	0
NC & ≥10	18	11	7	0	0

44

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	3	*	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	0	8	3	0	0
<20 & OR <5	1	12	5	1	0
VSBY ≥5	21	60	16	2	0
≥60 & ≥5	20	45	9	*	0
NC & ≥10	20	44	8	*	0

238

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<6 & OR <2	0	*	*	2	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	2	0
<20 & OR <5	*	3	9	3	*
VSBY ≥5	4	32	59	4	*
≥60 & ≥5	3	26	45	1	0
NC & ≥10	3	26	43	1	0

276

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	1	1	0	1
VSBY <2	0	0	1	0	1
<10 & OR <2	0	2	5	2	1
<20 & OR <5	0	3	8	4	1
VSBY ≥5	2	26	64	5	0
≥60 & ≥5	2	20	47	1	0
NC & ≥10	2	19	43	1	0

168

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	7	0	2	0
<20 & OR <5	0	26	7	2	0
VSBY ≥5	13	61	22	2	0
≥60 & ≥5	13	35	13	0	0
NC & ≥10	13	28	11	0	0

46

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	*
<6 & OR <2	0	1	*	*	*
VSBY <2	0	*	0	0	*
<10 & OR <2	*	3	2	1	1
<20 & OR <5	1	6	4	3	1
VSBY ≥5	18	46	26	9	*
≥60 & ≥5	17	38	21	4	0
NC & ≥10	16	37	21	4	0

740

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	0	0
<20 & OR <5	0	3	24	3	0
VSBY ≥5	3	28	47	18	0
≥60 & ≥5	3	24	26	3	0
NC & ≥10	3	24	26	3	0

34

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	12	0	0
<20 & OR <5	0	3	24	8	0
VSBY ≥5	0	28	64	8	0
≥60 & ≥5	0	12	30	2	0
NC & ≥10	0	12	29	0	0

68

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	0	2	1	0
<20 & OR <5	1	1	6	2	0
VSBY ≥5	2	13	68	16	0
≥60 & ≥5	1	11	52	7	0
NC & ≥10	1	10	48	6	0

171

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	2	1
VSBY <2	0	0	1	0	0
<10 & OR <2	0	7	10	2	0
<20 & OR <5	0	10	16	8	0
VSBY ≥5	1	28	56	13	1
≥60 & ≥5	1	17	38	4	1
NC & ≥10	1	16	36	3	1

180

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	0	0	0
<20 & OR <5	4	17	13	1	0
VSBY ≥5	6	44	39	8	0
≥60 & ≥5	3	18	22	5	0
NC & ≥10	3	17	19	3	0

77

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	*	1	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	1	3	2	1
<20 & OR <5	1	7	13	5	1
VSBY ≥5	4	36	46	10	1
≥60 & ≥5	3	20	28	4	*
NC & ≥10	3	18	23	3	*

378

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	*	0	0	0
<6 & OR <2	*	1	*	*	0
VSBY <2	*	*	0	0	0
<10 & OR <2	1	3	5	*	*
<20 & OR <5	1	10	12	1	1
VSBY ≥5	5	41	43	9	1
≥60 & ≥5	3	21	23	8	0
NC & ≥10	2	18	20	5	0

1008

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	1	*	*	*
VSBY <2	0	0	0	*	0
<10 & OR <2	*	2	3	3	2
<20 & OR <5	1	6	12	7	2
VSBY ≥5	7	33	42	14	2
≥60 & ≥5	5	26	26	8	0
NC & ≥10	5	26	23	5	0

340

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	5	3	0
<20 & OR <5	0	7	14	5	0
VSBY ≥5	5	35	50	9	*
≥60 & ≥5	5	27	31	5	*
NC & ≥10	5	24	27	4	*

216

36

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	7	20	3	0
<20 & OR <5	7	13	27	10	0
VSBY ≥5	10	40	37	7	0
≥60 & ≥5	3	23	13	0	0
NC & ≥10	3	23	13	0	0

30

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	10	4	1	1
<20 & OR <5	0	20	10	5	2
VSBY ≥5	0	42	38	16	4
≥60 & ≥5	0	15	21	7	1
NC & ≥10	0	14	17	6	1

84

42

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	5
VSBY <2	0	0	0	0	5
<10 & OR <2	0	0	0	0	5
<20 & OR <5	0	0	0	5	5
VSBY ≥5	0	14	57	19	0
≥60 & ≥5	0	10	43	14	0
NC & ≥10	0	10	5	14	0

21

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	1	2	0
<6 & OR <2	0	3	3	3	1
VSBY <2	0	2	1	1	0
<10 & OR <2	1	10	10	7	1
<20 & OR <5	1	18	17	12	1
VSBY ≥5	1	25	36	26	1
≥60 & ≥5	0	8	13	16	0
NC & ≥10	0	7	10	11	0

102

44

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	5	16	0
<6 & OR <2	0	5	11	16	0
VSBY <2	0	0	11	16	0
<10 & OR <2	0	5	11	16	0
<20 & OR <5	0	5	32	16	0
VSBY ≥5	0	16	28	11	5
≥60 & ≥5	0	11	5	11	5
NC & ≥10	0	11	5	5	0

19

45

WIND SPEED (KNOTS)

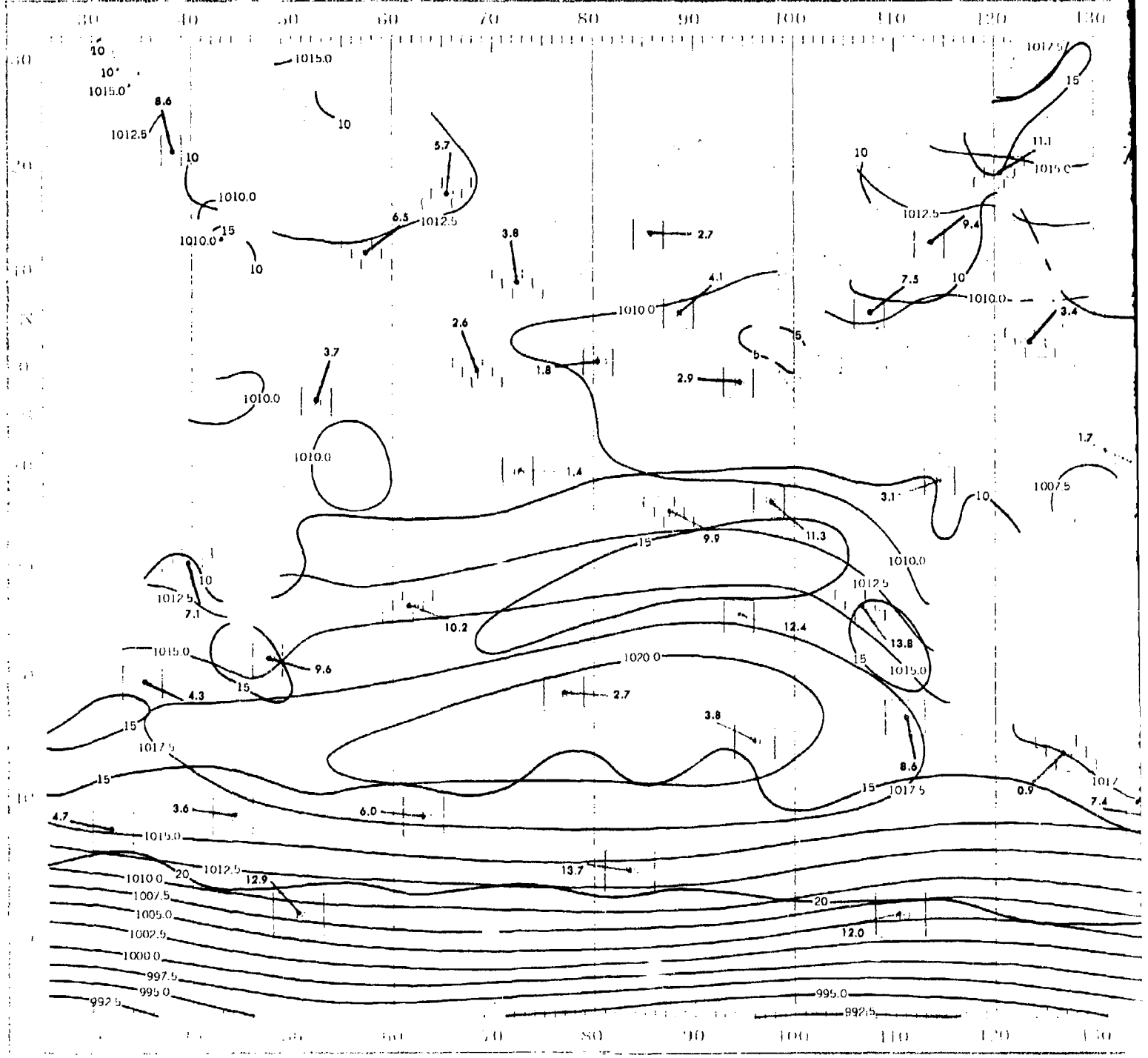
LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	3	9	1	0
<6 & OR <2	0	3	14	1	0
VSBY <2	0	3	14	1	0
<10 & OR <2	0	3	15	8	1
<20 & OR <5	1	8	22	13	5
VSBY ≥5	1	8	37	22	11
≥60 & ≥5	0	5	16	8	7
NC & ≥10	0	5	13	2	8

87

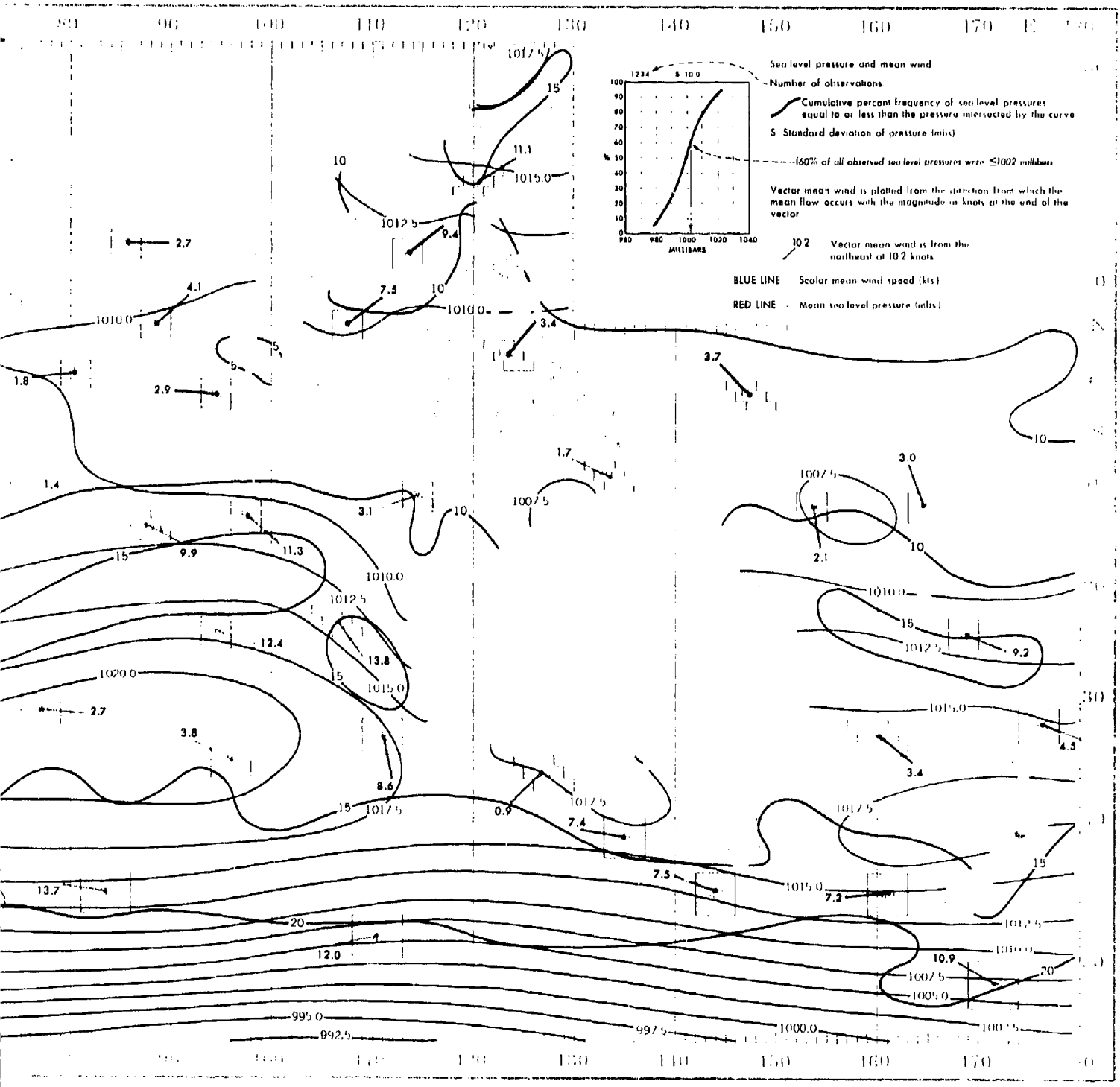
tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

MARCH

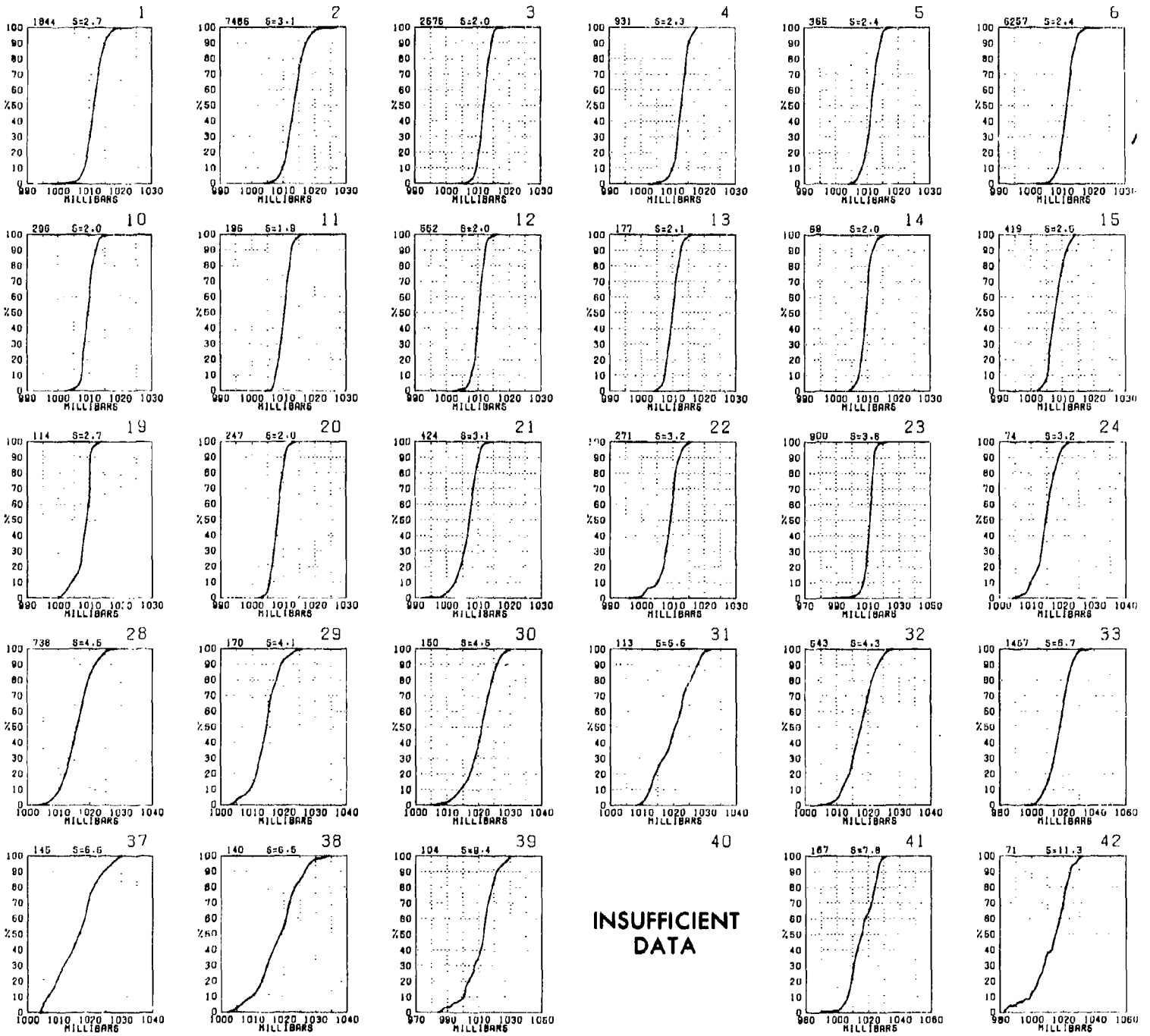
SEA LEVEL PRE



SEA LEVEL PRESSURE AND MEAN WIND



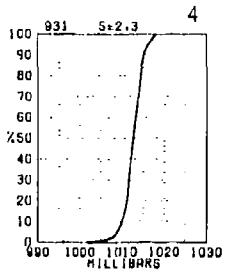
SEA LEVEL PRESSURE

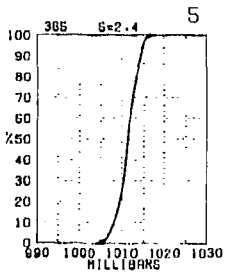


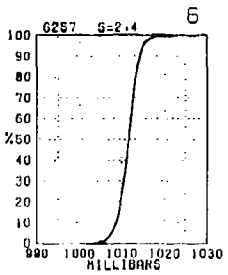
INSUFFICIENT DATA

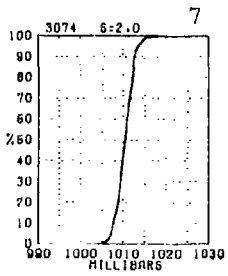
Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

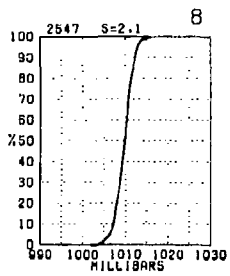
MARCH

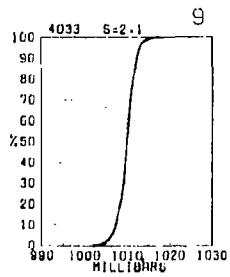


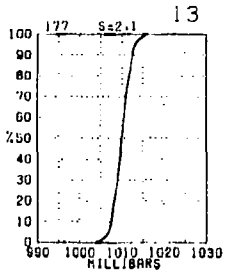


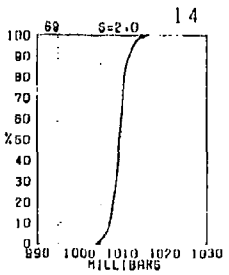


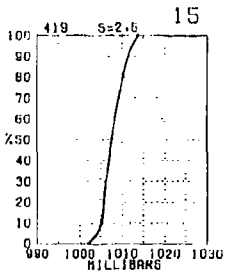


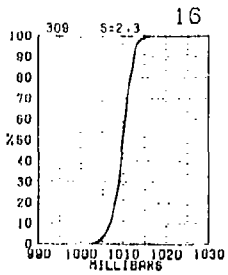


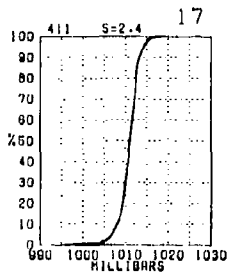


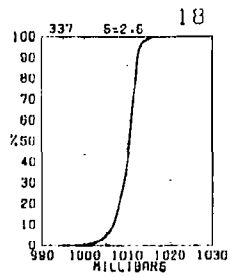


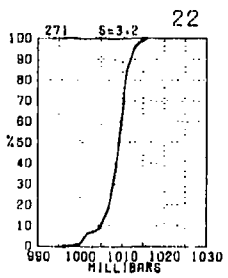


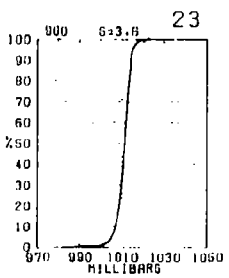


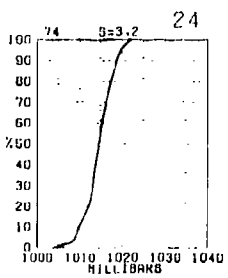


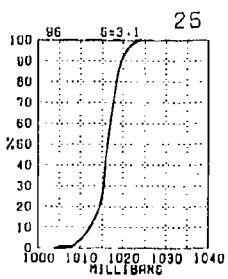


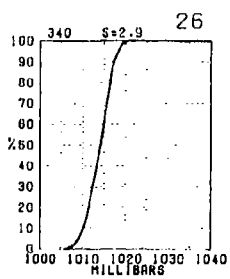


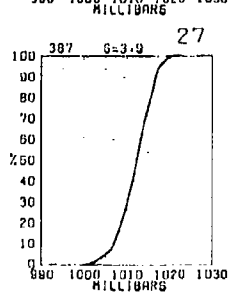


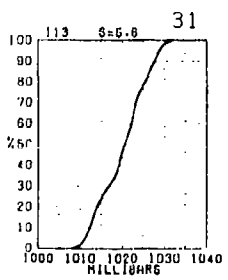


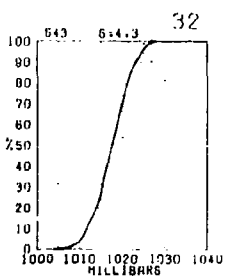


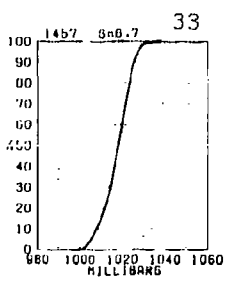


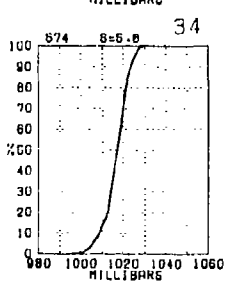


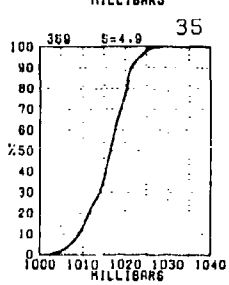


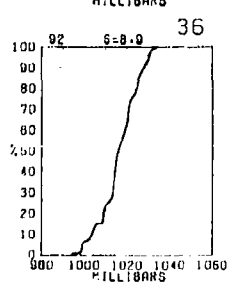






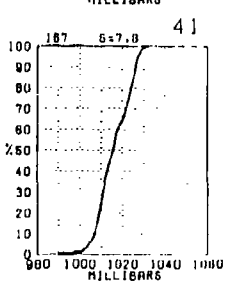


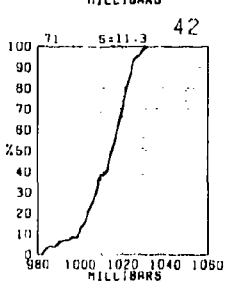


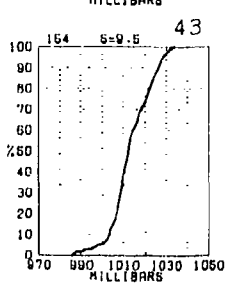


40

INSUFFICIENT DATA

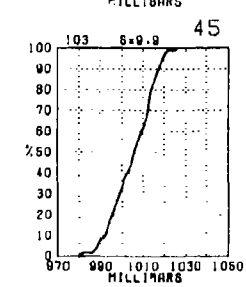






44

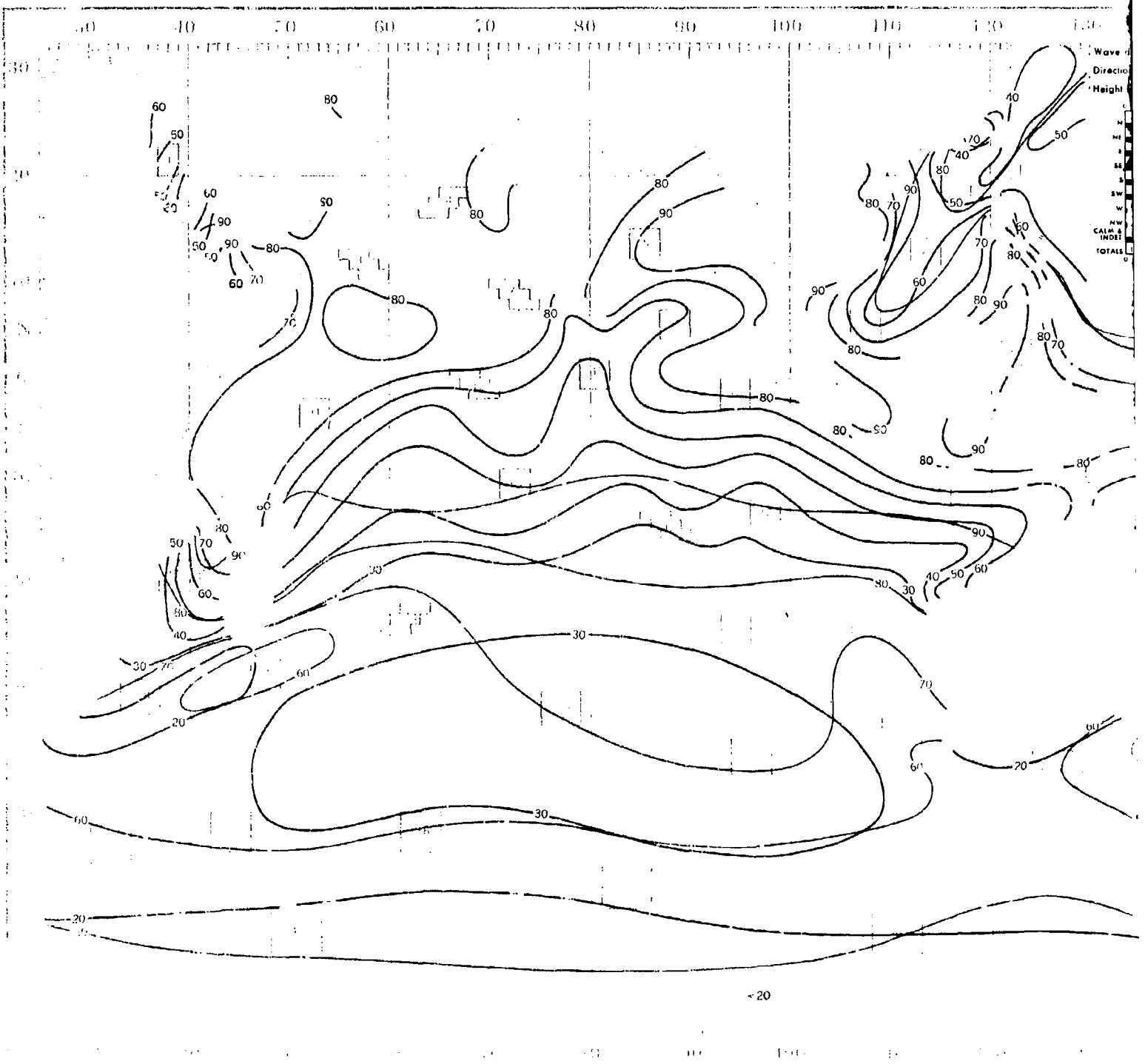
INSUFFICIENT DATA



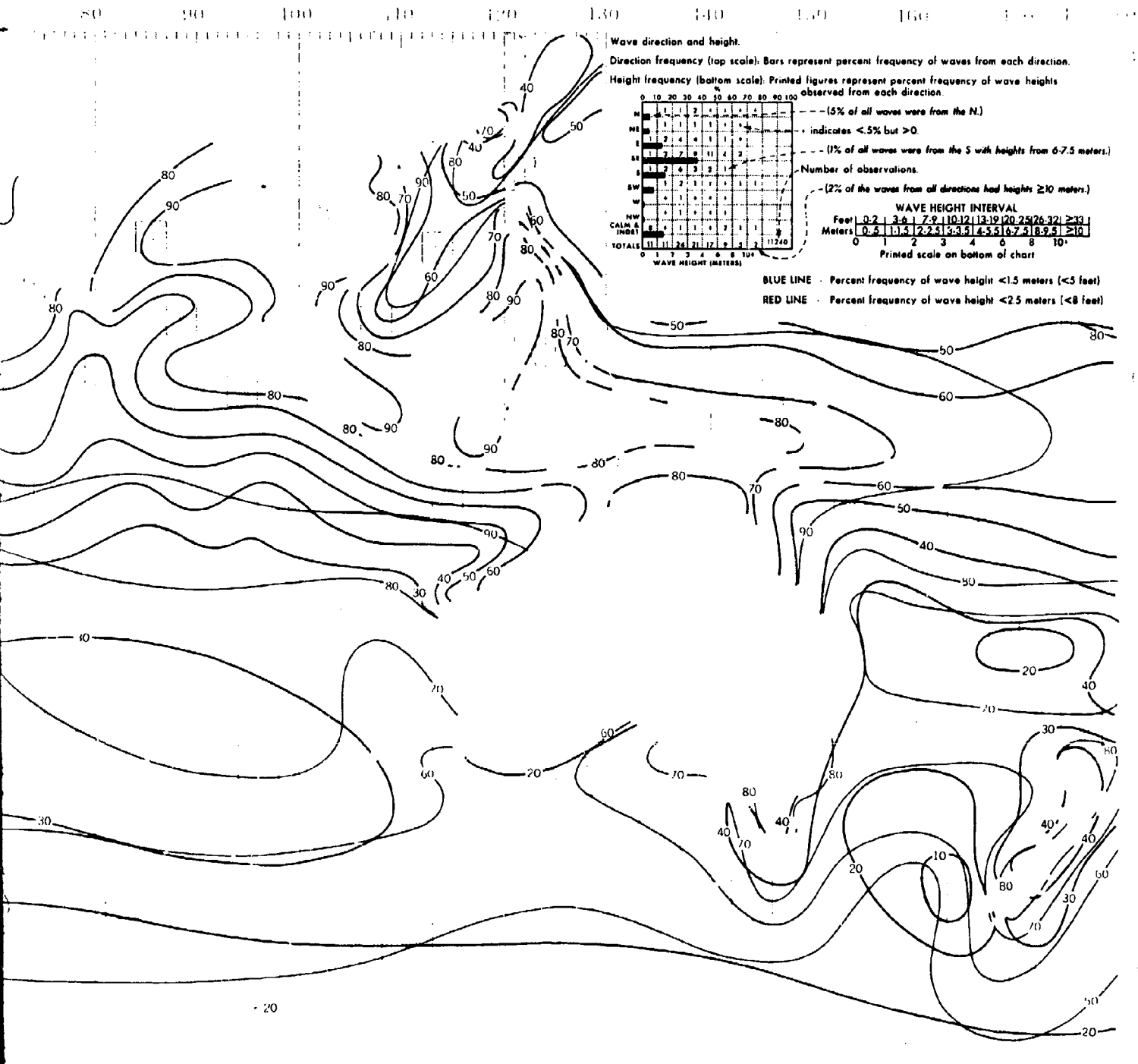
›bjective compilation of available data for specified areas without regard to suspected biases.
(opposite page) are based on all available data subjectively adjusted where bias was evident.

MARCH

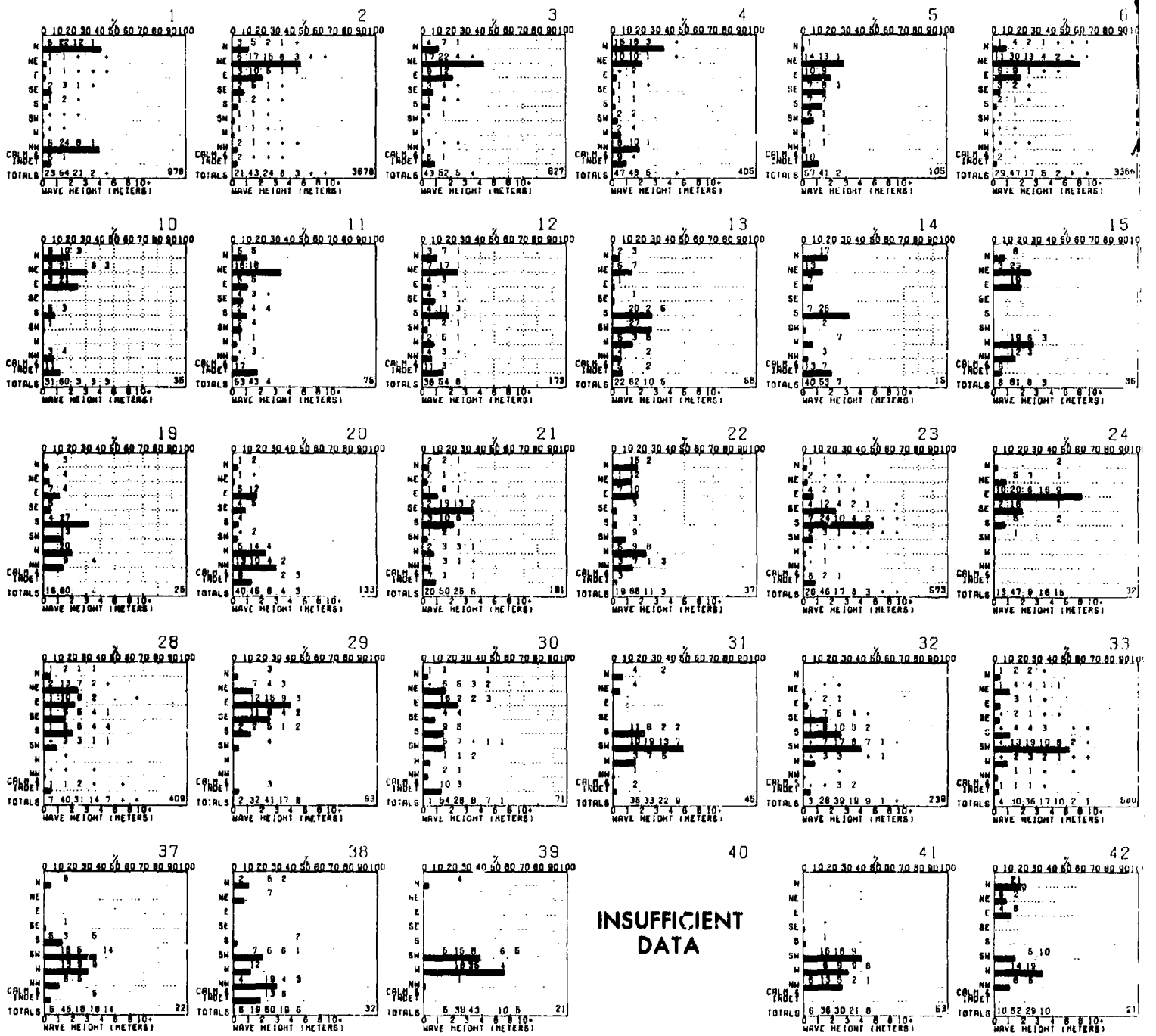
WAVES



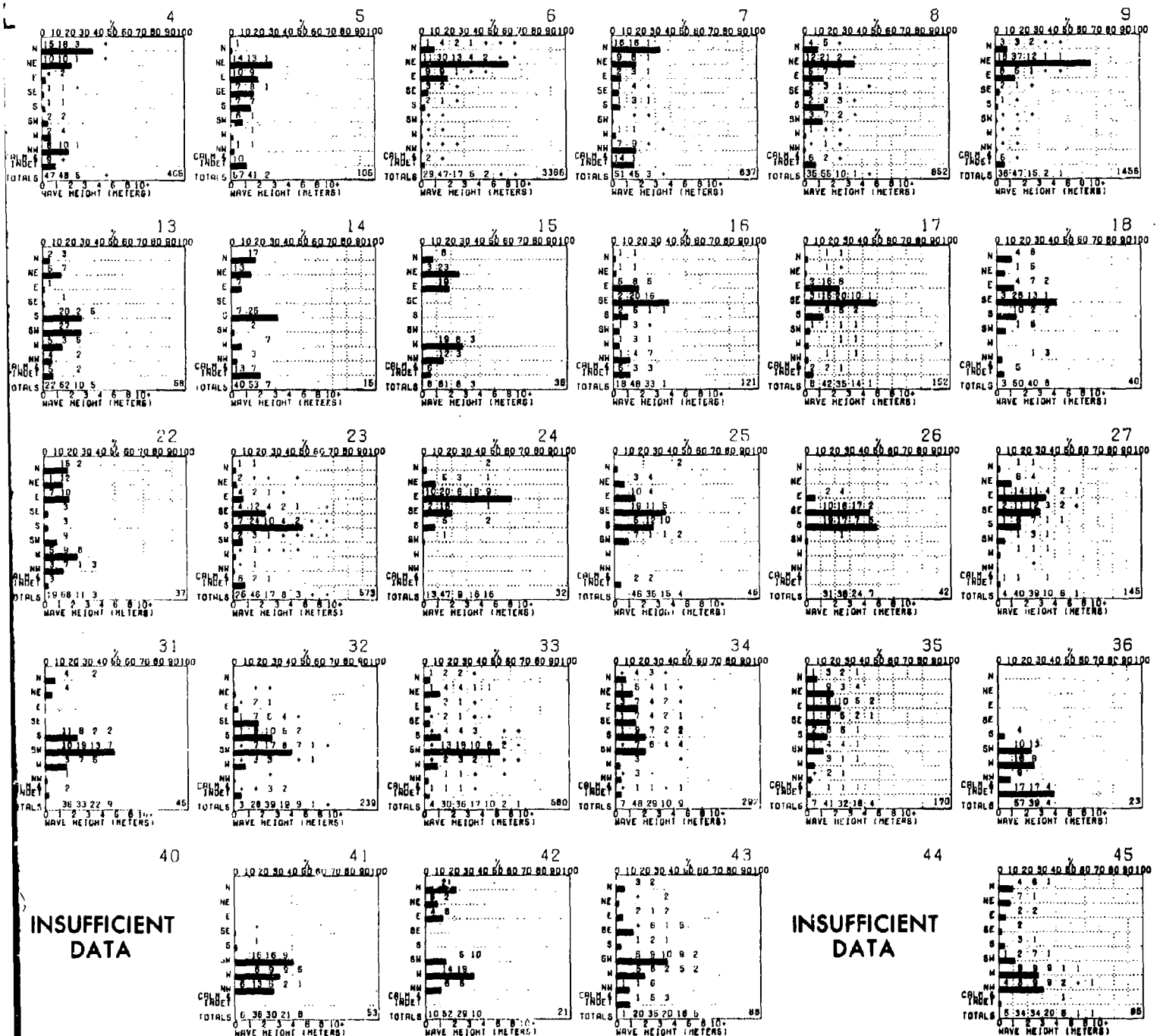
WAVES (<1.5 AND <2.5 METERS)



WAVE DIRECTION AND HEIGHT



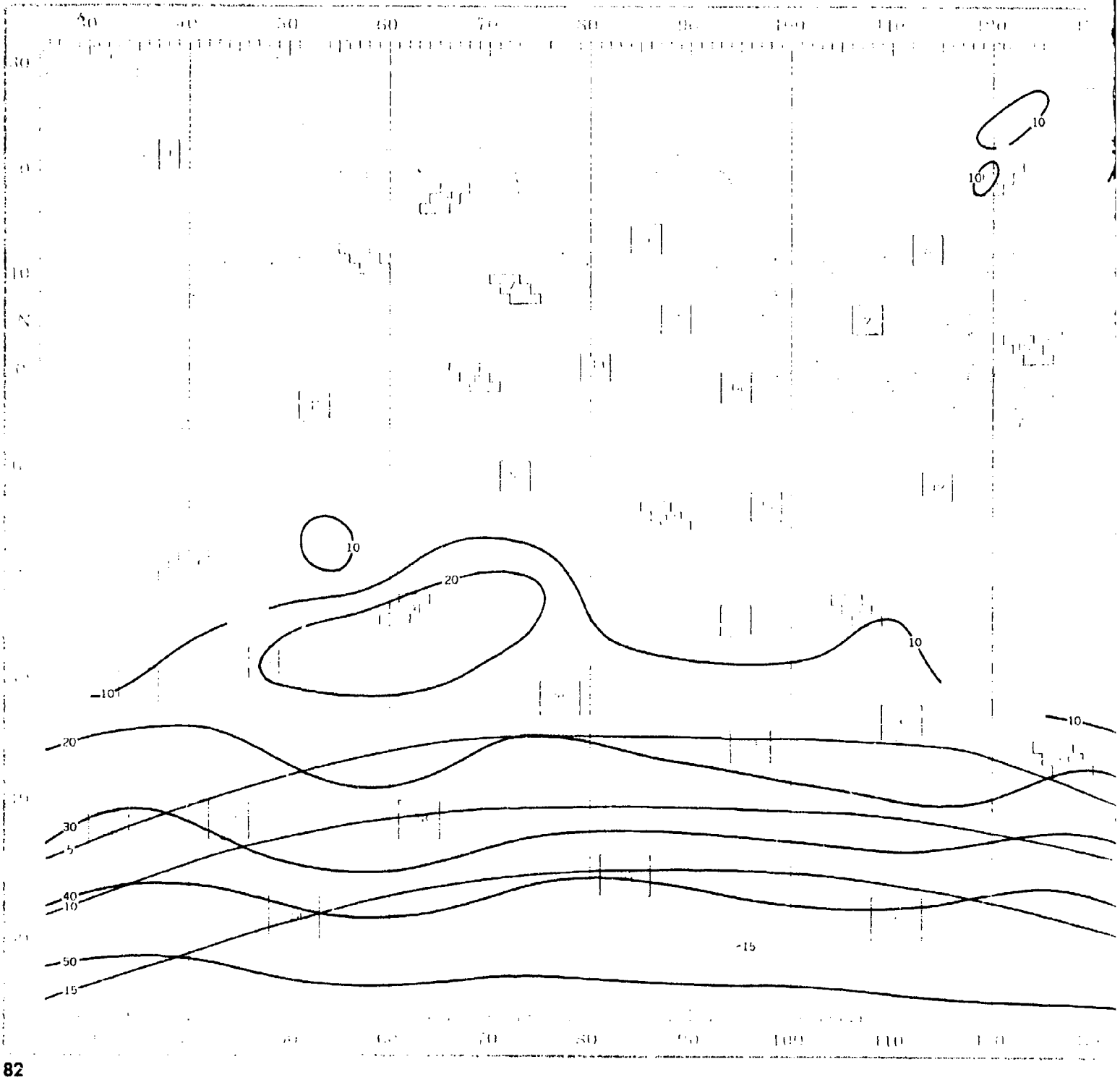
Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjec vely adjuste



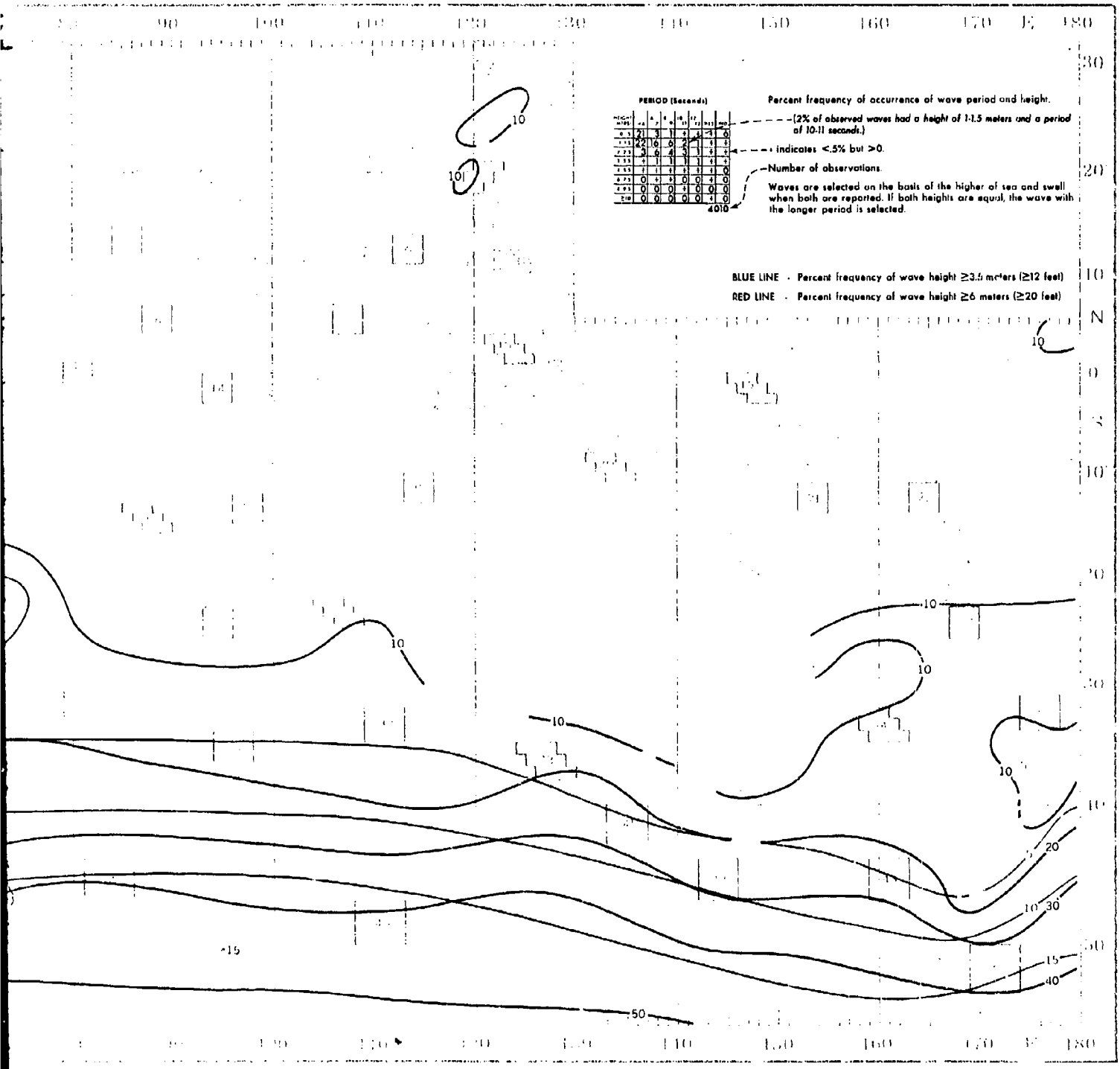
ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

MARCH

WAVE



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	1	+	0	0	0	8
1-3.5	28	16	2	+	0	0	5
3-5.5	5	9	4	+	+	0	1
5-7.5	1	1	+	+	+	0	+
7-9.5	0	0	0	0	+	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

1014

2

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	2	+	-	0	0	3
1-3.5	21	15	5	1	+	+	1
3-5.5	4	8	8	3	+	+	+
5-7.5	1	2	2	2	1	+	+
7-9.5	+	1	1	1	+	+	0
9-11.5	0	0	+	0	+	+	0
>11	0	0	0	0	0	0	0

3779

3

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	31	2	+	1	0	0	15
1-3.5	24	14	7	2	1	0	3
3-5.5	1	2	+	+	+	0	1
5-7.5	0	0	0	0	+	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

685

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	39	2	+	+	0	0	11
1-3.5	25	12	2	+	+	0	2
3-5.5	1	2	1	+	0	+	0
5-7.5	0	0	0	0	0	0	0
7-9.5	0	+	0	0	+	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

459

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	48	5	1	0	0	0	12
1-3.5	23	8	1	1	0	0	0
3-5.5	1	0	1	0	0	0	0
5-7.5	0	0	0	0	0	0	0
7-9.5	0	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

130

PERIOD (SECON

0-1.5	27	2	+	+	+		
1-3.5	24	16	3	1	+		
3-5.5	2	5	6	2	+		
5-7.5	+	1	2	1	1		
7-9.5	+	+	+	+	+		
9-11.5	0	0	+	+	+		
>11	0	0	0	0	0		

10

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	32	2	0	0	0	0	11
1-3.5	30	14	2	0	0	0	2
3-5.5	0	0	2	0	0	0	0
5-7.5	2	0	0	0	0	0	0
7-9.5	2	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

44

11

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	32	1	0	3	0	0	19
1-3.5	24	10	4	0	3	0	0
3-5.5	1	3	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

78

12

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	22	4	2	3	0	0	14
1-3.5	14	23	5	3	1	1	3
3-5.5	0	3	1	2	1	1	0
5-7.5	0	0	0	0	0	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

191

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	2	0	0	0	0	8
1-3.5	19	17	8	13	0	0	0
3-5.5	0	0	3	5	0	0	2
5-7.5	0	2	3	0	0	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

63

14

INSUFFICIENT DATA

PERIOD (SECON

0-1.5	3	0	3	0	0		
1-3.5	51	11	0	5	11		
3-5.5	3	0	5	0	0		
5-7.5	0	0	0	3	0		
7-9.5	0	0	0	0	0		
9-11.5	0	0	0	0	0		
>11	0	0	0	0	0		

19

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	0	0	0	0	0	0
1-3.5	36	16	16	4	8	0	0
3-5.5	0	0	0	0	0	0	0
5-7.5	0	0	0	4	0	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

56

20

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	31	1	1	0	0	0	9
1-3.5	28	12	4	1	0	0	0
3-5.5	1	2	4	0	0	0	0
5-7.5	0	0	2	0	0	0	1
7-9.5	0	0	0	0	0	0	3
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

137

21

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	12	3	1	0	0	0	7
1-3.5	14	22	8	1	1	0	2
3-5.5	2	10	5	5	1	0	1
5-7.5	0	0	1	2	0	1	1
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

188

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	18	0	0	0	0	0	3
1-3.5	27	24	11	3	0	0	3
3-5.5	3	3	2	0	0	0	0
5-7.5	0	0	0	3	0	0	0
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

37

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	18	2	1	1	0	0	8
1-3.5	22	11	7	1	1	+	3
3-5.5	3	8	5	1	1	+	1
5-7.5	1	3	2	1	1	0	+
7-9.5	1	+	1	+	1	+	0
9-11.5	0	+	0	0	0	0	0
>11	0	0	0	0	0	0	0

597

PERIOD (SECON

0-1.5	13	0	0	0	0		
1-3.5	16	22	3	0	0		
3-5.5	0	3	6	0	0		
5-7.5	0	3	9	0	0		
7-9.5	6	0	3	6	0		
9-11.5	0	0	0	0	0		
>11	0	0	0	0	0		

28

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	+	1	0	0	0	2
1-3.5	17	13	4	1	1	1	3
3-5.5	8	11	7	2	+	+	5
5-7.5	1	4	5	3	+	0	1
7-9.5	+	1	2	1	1	+	0
9-11.5	0	0	0	0	0	0	+
>11	0	0	+	0	0	0	0

414

29

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	0
1-3.5	8	19	2	0	0	0	3
3-5.5	8	13	14	2	2	0	5
5-7.5	0	5	3	3	6	0	0
7-9.5	2	5	0	2	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

63

30

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	0	0	0	0	0	10
1-3.5	10	16	4	6	1	1	9
3-5.5	1	10	3	8	1	0	4
5-7.5	1	1	4	0	1	0	0
7-9.5	4	0	3	0	0	0	0
9-11.5	0	0	1	0	0	0	0
>11	0	0	0	0	0	0	0

80

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	2
1-3.5	2	13	11	7	0	0	2
3-5.5	0	0	28	7	0	0	0
5-7.5	2	4	9	4	2	0	0
7-9.5	0	0	4	2	0	2	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

46

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	+	0	0	0	0	3
1-3.5	7	10	5	3	0	0	2
3-5.5	5	6	15	4	3	1	5
5-7.5	+	3	5	5	2	1	2
7-9.5	0	0	3	2	3	2	+
9-11.5	0	0	0	1	0	0	0
>11	0	0	0	+	0	0	0

239

PERIOD (SECONI

0-1.5	3	0	0	0	0		
1-3.5	8	9	7	4	1		
3-5.5	4	8	10	7	2		
5-7.5	2	2	6	4	2		
7-9.5	1	1	1	3	2		
9-11.5	0	0	0	1	1		
>11	0	0	0	+	1		

37

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	5	0	0	0	0
1-3.5	18	18	5	5	0	0	0
3-5.5	0	9	9	0	0	0	0
5-7.5	0	5	0	0	5	0	9
7-9.5	0	0	0	14	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

22

38

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	0	0	0	0	0	0
1-3.5	9	0	6	0	0	0	3
3-5.5	3	6	36	3	0	0	0
5-7.5	3	3	6	0	3	0	3
7-9.5	0	0	0	6	0	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

32

39

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-3.5	0	6	0	0	0	0	0
3-5.5	10	19	5	0	0	0	5
5-7.5	0	10	29	0	0	0	5
7-9.5	0	0	0	0	0	0	0
9-11.5	0	0	0	10	0	0	0
>11	0	0	0	0	5	0	0

21

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	8	0	0	0	0
1-3.5	2	9	11	2	0	8	4
3-5.5	2	6	8	11	0	0	4
5-7.5	0	0	0	11	8	2	0
7-9.5	4	2	0	0	2	0	0
9-11.5	0	0	0	0	0	0	0
>11	0	0	0	0	0	0	0

63

PERIOD (SECONI

0-1.5	17	0	0	0	0		
1-3.5	1-	33	0	0	6		
3-5.5	-	0	0	19	5		
5-7.5	0	0	5	6	0		
7-9.5	0	0	0	0	0		
9-11.5	0	0	0	0	0		
>11	0	0	0	0	0		

Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively ad

MARCH

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	39	2	+	+	0	0	11
1-1.5	25	12	2	+	+	0	2
2-2.5	1	2	1	.	0	+	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	+	0	0	+	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

459

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	48	5	1	0	0	0	12
1-1.5	23	8	1	1	0	0	0
2-2.5	1	0	1	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

130

6

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	27	2	+	+	0	0	3
1-1.5	24	15	3	1	+	0	1
2-2.5	2	5	6	2	+	+	+
3-3.5	+	1	2	1	1	+	+
4-4.5	+	+	+	+	+	+	+
5-7.5	0	0	+	+	+	+	0
8-9.5	0	0	0	0	0	+	0
≥10	0	0	0	0	0	0	0

3548

7

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	36	3	1	+	0	0	18
1-1.5	18	10	6	2	1	+	3
2-2.5	1	1	1	+	0	0	0
3-3.5	+	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

748

8

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	24	3	1	1	0	0	11
1-1.5	17	18	8	4	1	+	3
2-2.5	1	2	2	1	1	+	+
3-3.5	0	0	+	+	+	+	0
4-4.5	0	0	0	0	+	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

927

9

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	30	2	1	0	0	0	8
1-1.5	23	14	3	1	+	0	2
2-2.5	3	8	3	1	+	0	+
3-3.5	+	1	1	+	0	0	0
4-4.5	+	+	+	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

1574

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	21	2	0	0	0	0	6
1-1.5	19	17	8	13	0	0	0
2-2.5	0	0	3	5	0	0	2
3-3.5	0	2	3	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

63

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	3	0	0	0	6
1-1.5	61	11	0	6	11	0	0
2-2.5	3	0	6	0	0	0	0
3-3.5	0	0	0	3	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

37

16

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	9	4	2	0	0	0	6
1-1.5	10	18	11	3	0	0	4
2-2.5	0	10	10	7	1	0	3
3-3.5	0	0	1	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

125

17

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	0	0	0	0	3
1-1.5	14	9	11	3	1	0	5
2-2.5	2	8	17	5	0	0	3
3-3.5	0	2	4	3	6	0	0
4-4.5	0	0	1	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

152

18

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	0
1-1.5	10	30	0	6	0	0	6
2-2.5	0	10	26	3	0	0	0
3-3.5	3	0	3	3	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

40

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	18	0	0	0	0	0	3
1-1.5	27	24	11	3	0	0	3
2-2.5	3	3	5	0	0	0	0
3-3.5	0	0	0	3	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

37

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	18	2	1	1	0	0	8
1-1.5	22	11	7	1	1	+	3
2-2.5	3	6	6	1	1	+	1
3-3.5	1	3	2	1	1	0	+
4-4.5	1	+	1	+	1	+	0
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	+	0	0	0
≥10	0	0	0	0	0	0	0

597

24

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	13	0	0	0	0	0	0
1-1.5	16	22	3	0	0	0	6
2-2.5	0	3	8	0	0	0	0
3-3.5	0	3	9	0	0	0	3
4-4.5	6	0	3	6	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

32

25

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	11	17	4	11	0	0	2
2-2.5	0	11	17	2	0	0	4
3-3.5	0	0	7	7	0	0	2
4-4.5	0	0	2	0	2	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

46

26

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	7	12	5	5	0	0	2
2-2.5	2	12	19	2	2	0	0
3-3.5	0	0	17	0	2	0	5
4-4.5	0	0	7	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

42

27

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	9	1	0	0	0	0	1
1-1.5	13	14	6	4	1	0	1
2-2.5	6	9	21	6	1	1	0
3-3.5	1	4	3	1	1	1	0
4-4.5	0	3	0	1	0	0	1
5-7.5	0	1	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

145

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	2
1-1.5	2	13	11	7	0	0	2
2-2.5	0	0	26	7	0	0	0
3-3.5	2	4	9	4	2	0	0
4-4.5	0	0	4	2	0	2	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

46

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	+	0	0	0	0	3
1-1.5	7	10	5	3	0	0	2
2-2.5	5	8	15	4	3	1	5
3-3.5	+	3	5	5	2	1	2
4-4.5	0	0	3	2	3	2	+
5-7.5	0	0	0	1	0	0	0
8-9.5	0	0	0	+	0	0	0
≥10	0	0	0	0	0	0	0

238

33

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	1
1-1.5	8	9	7	4	1	1	2
2-2.5	4	8	10	7	2	1	2
3-3.5	2	2	8	4	2	1	1
4-4.5	0	1	1	3	2	3	+
5-7.5	0	0	0	1	1	+	0
8-9.5	0	0	0	+	1	0	0
≥10	0	0	0	0	0	0	0

584

34

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	7	1	0	+	0	0	1
1-1.5	23	11	6	2	2	+	1
2-2.5	5	8	10	3	1	1	0
3-3.5	1	4	2	2	1	0	1
4-4.5	+	2	2	2	1	1	1
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

298

35

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	1	1	0	0	0	1
1-1.5	14	19	2	2	2	0	3
2-2.5	5	14	8	2	1	1	1
3-3.5	1	8	8	1	0	1	1
4-4.5	0	1	1	1	1	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

173

36

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	13	0	13	0	0	22
2-2.5	4	4	0	8	0	4	17
3-3.5	0	0	0	0	0	0	4
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

23

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	8	0	0	0	0
1-1.5	2	9	11	2	0	8	4
2-2.5	2	6	8	11	0	0	4
3-3.5	0	0	0	11	8	2	0
4-4.5	4	2	0	0	2	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

53

42

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	10	0	0	0	0	0	0
1-1.5	14	33	0	0	5	0	0
2-2.5	0	0	0	18	6	5	0
3-3.5	0	0	5	5	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

21

43

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	1	0	0	0	0	0	0
1-1.5	2	14	2	1	0	0	1
2-2.5	7	14	2	7	1	0	.
3-3.5	0	10	3	3	2	0	1
4-4.5	3	3	7	3	1	0	0
5-7.5	0	?	0	2	2	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

88

44

INSUFFICIENT DATA

45

PERIOD (SECONDS)

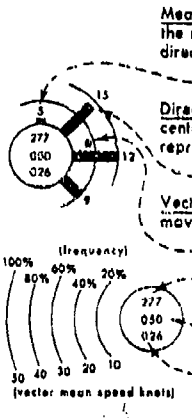
HEIGHT (METRES)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	4	1	0	0	0	0	0
1-1.5	18	18	0	0	0	0	0
2-2.5	8	8	13	8	1	0	0
3-3.5	0	2	14	4	0	0	0
4-4.5	0	0	1	2	0	0	1
5-7.5	0	0	0	1	0	0	0
8-9.5	0	0	0	0	0	1	0
≥10	0	0	0	0	0	0	0

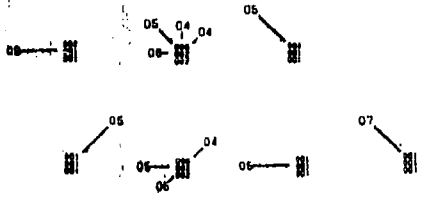
85

ojective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

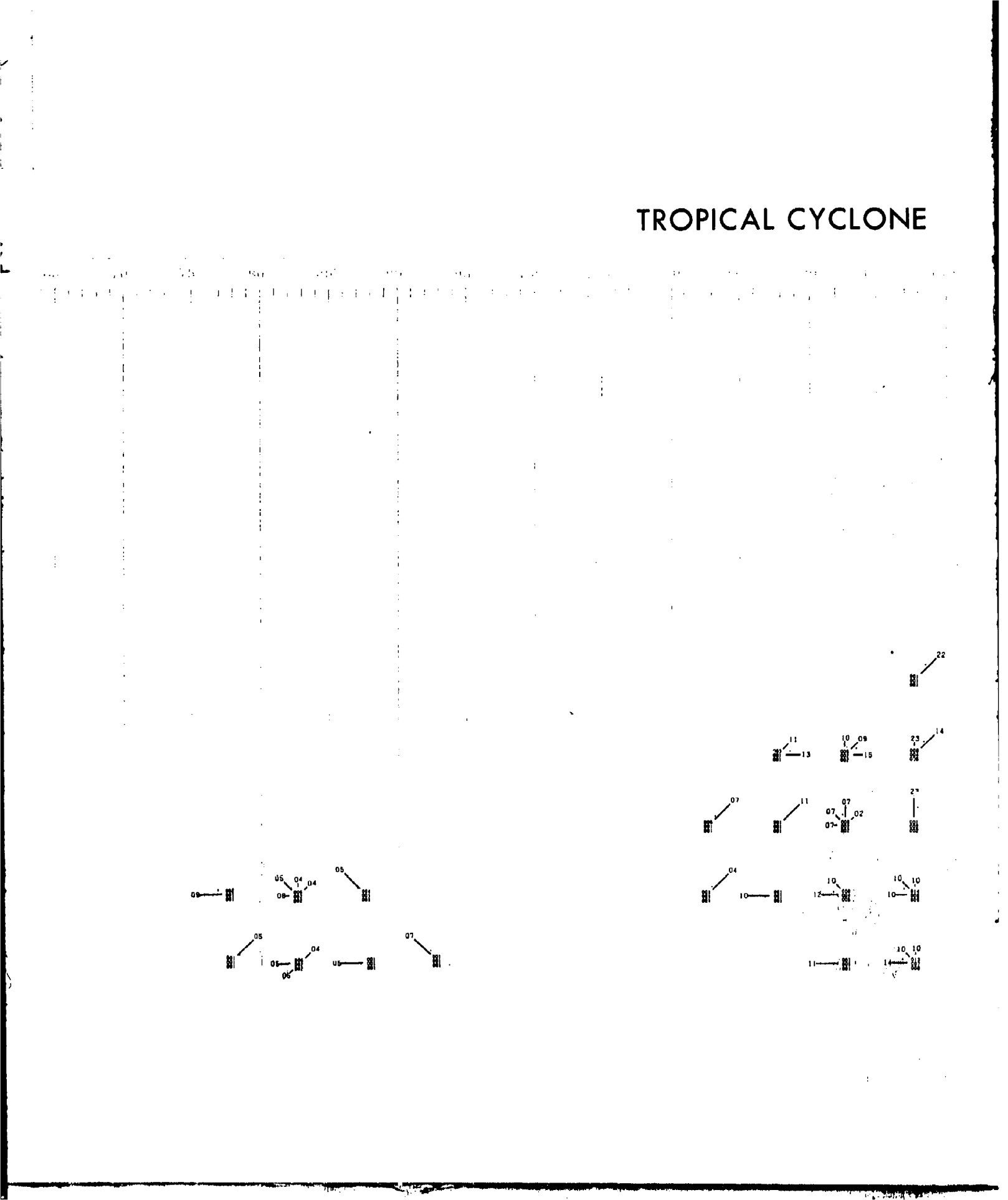
MARCH

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).

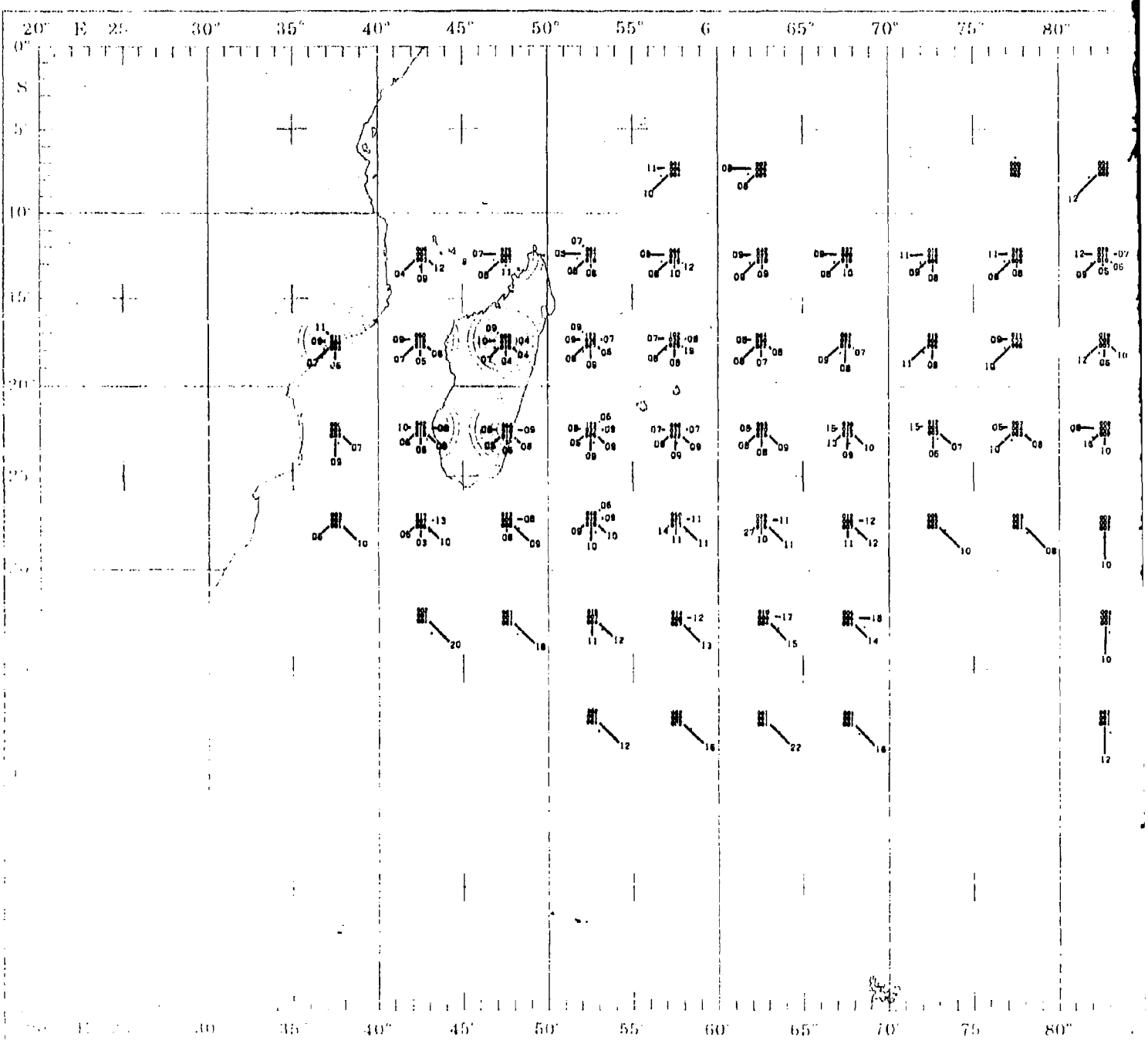




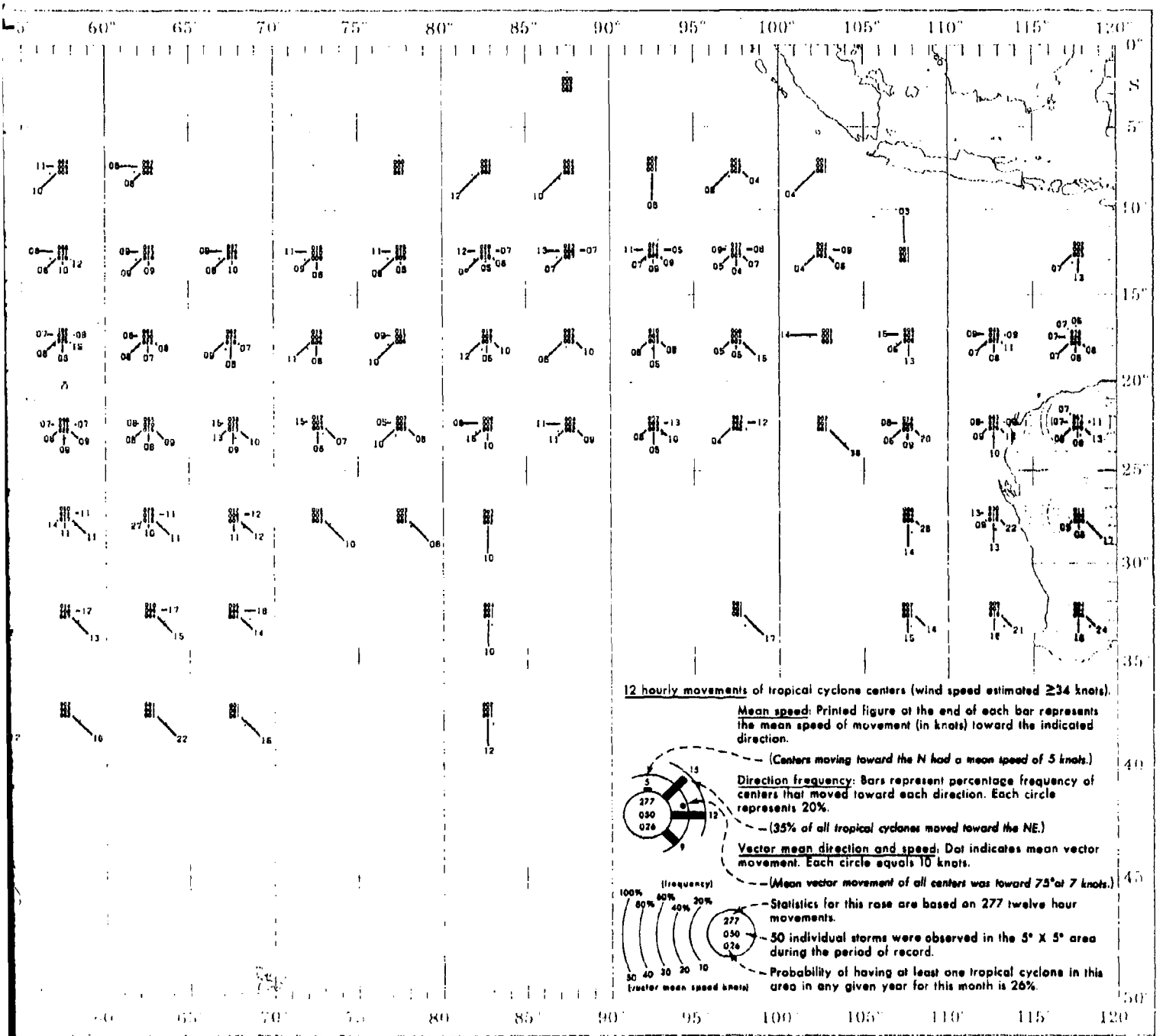
TROPICAL CYCLONE



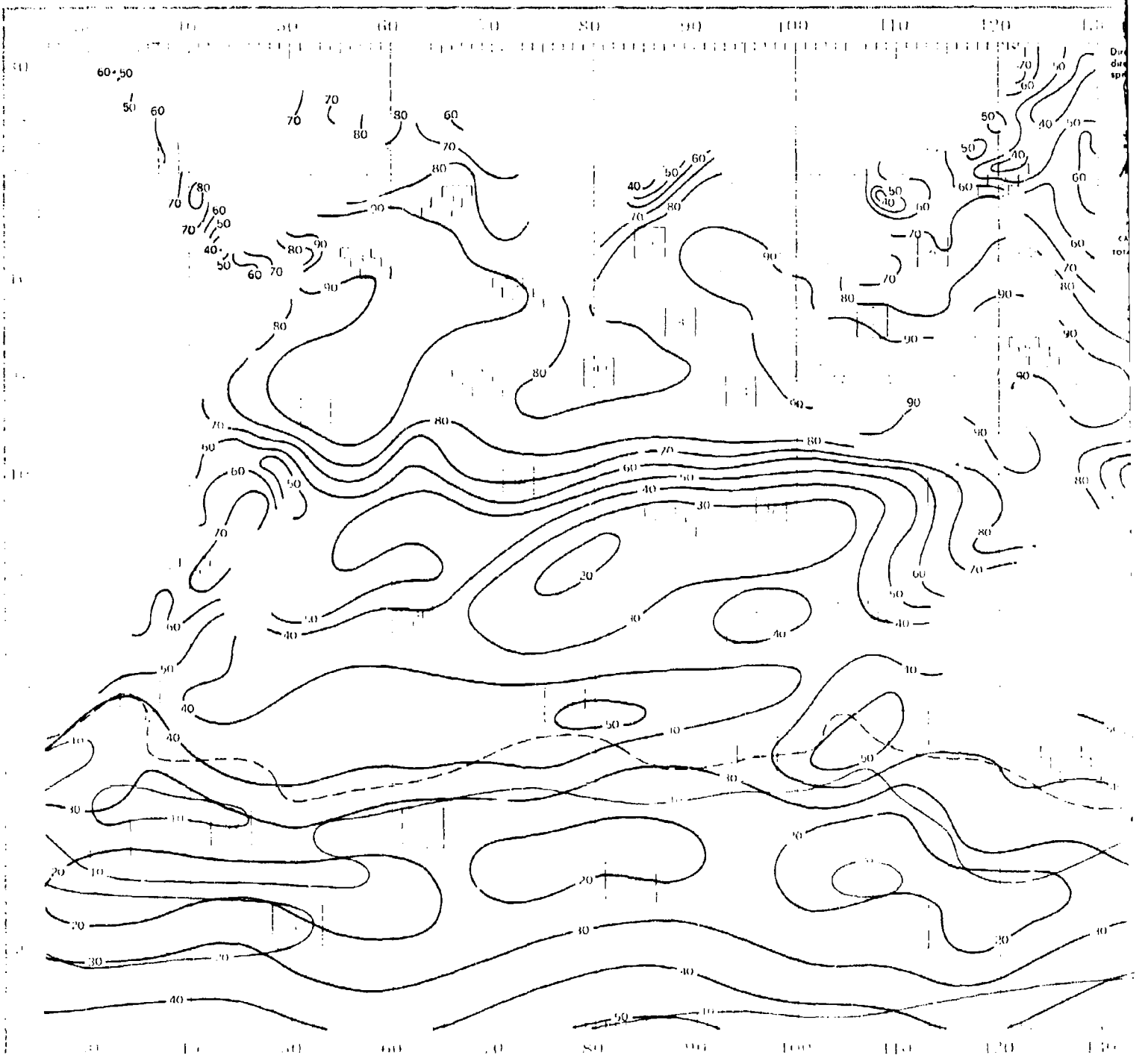
TROPICAL CYCLONE



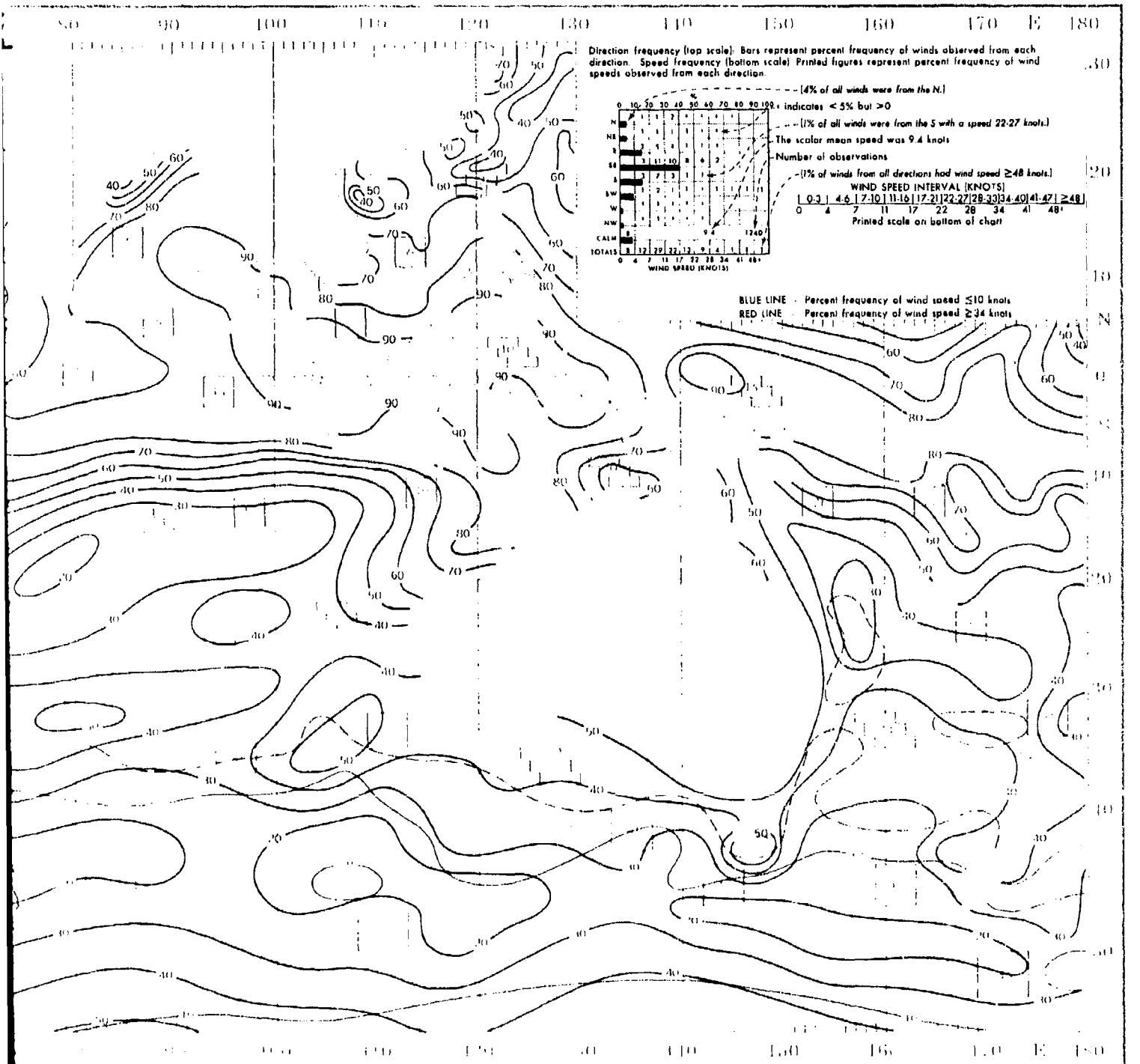
MARCH


60°
65°
70°
75°
80°
85°
90°
95°
100°
105°
110°
115°
120°
0°
5°
10°
15°
20°
25°
30°
35°
40°
45°
50°
S
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
277
050
026
(frequency)
100%
80%
60%
40%
20%
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

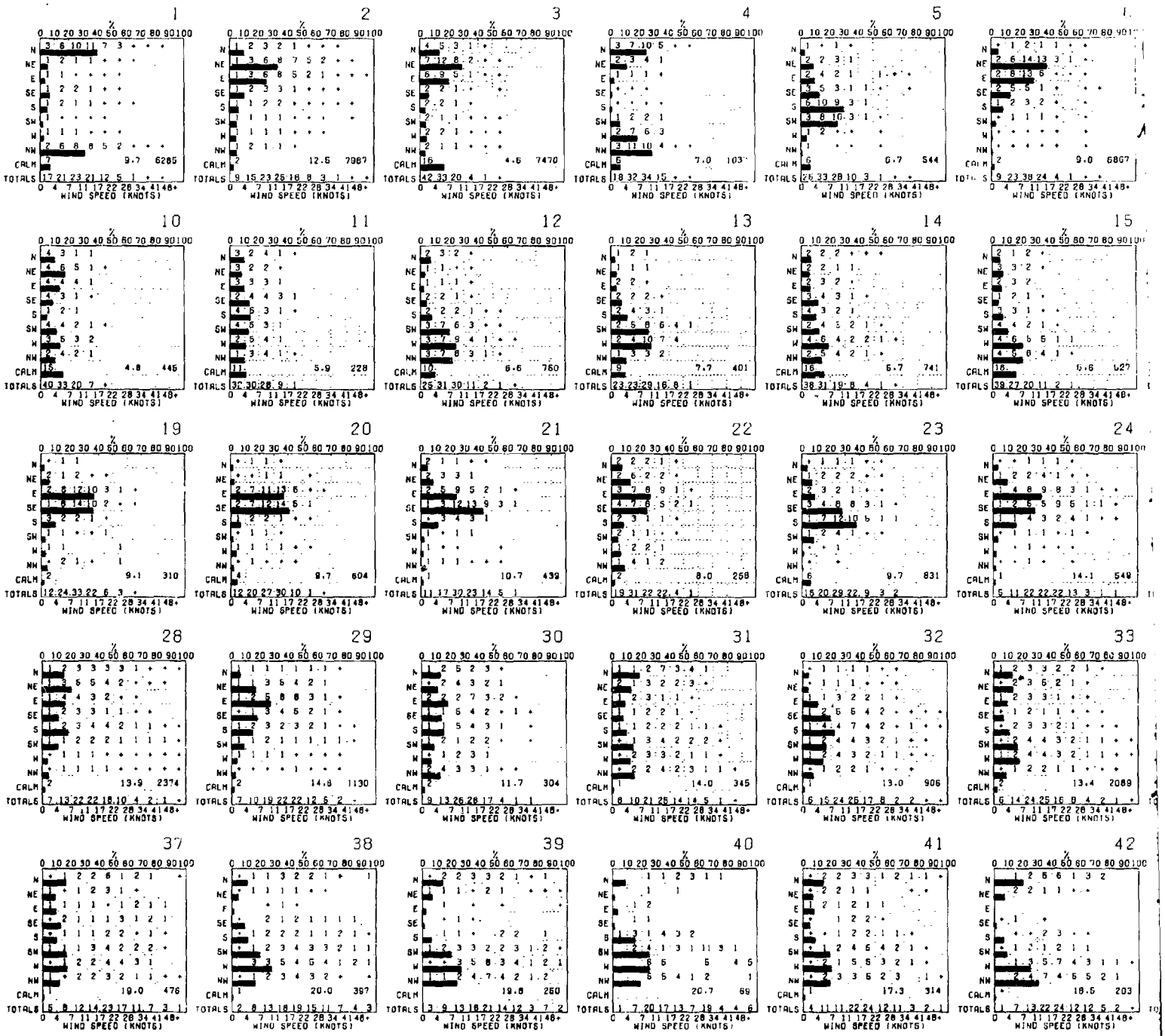
APRIL



SURFACE WINDS



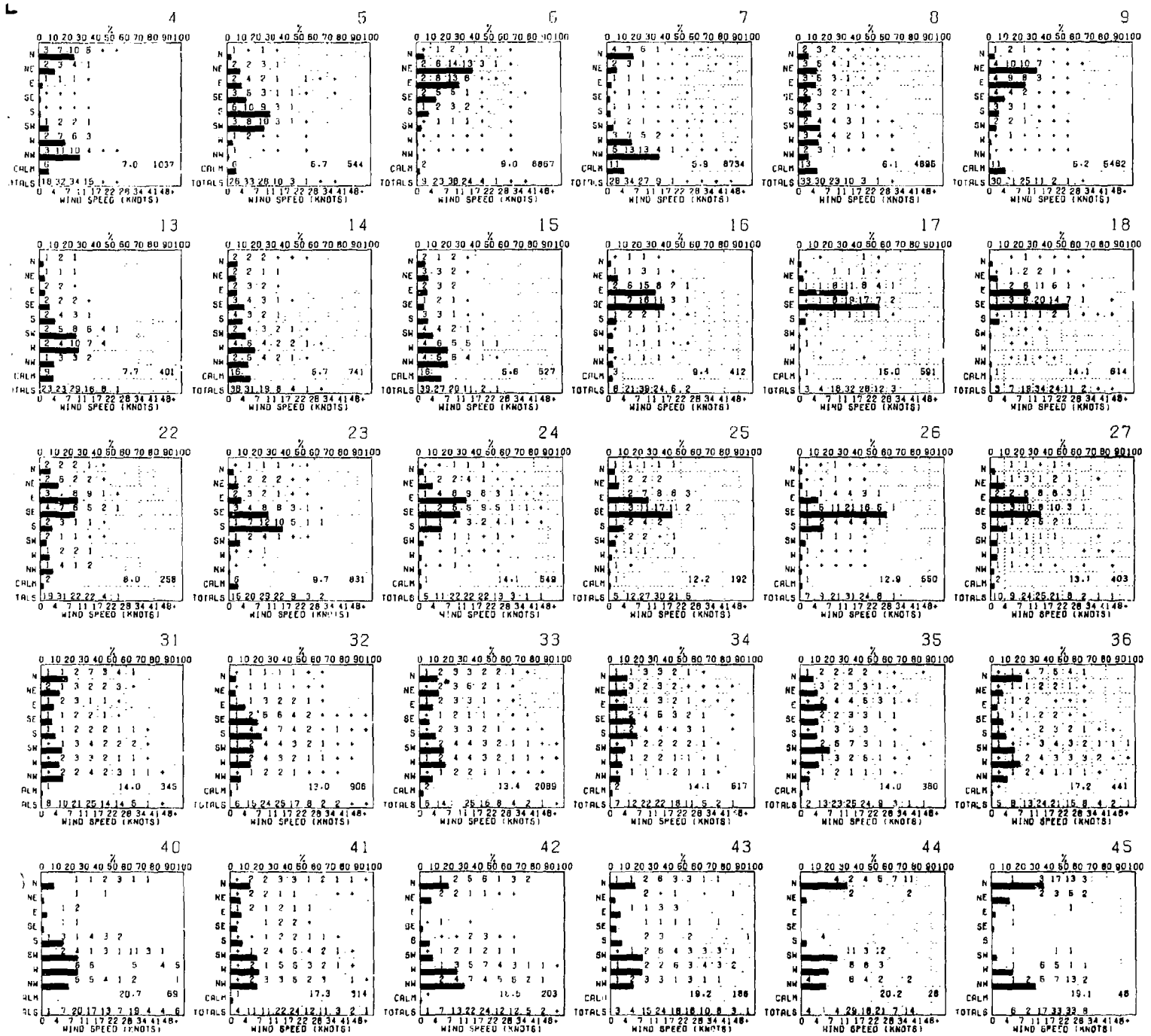
WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjecti ely adjusted

D

APRIL

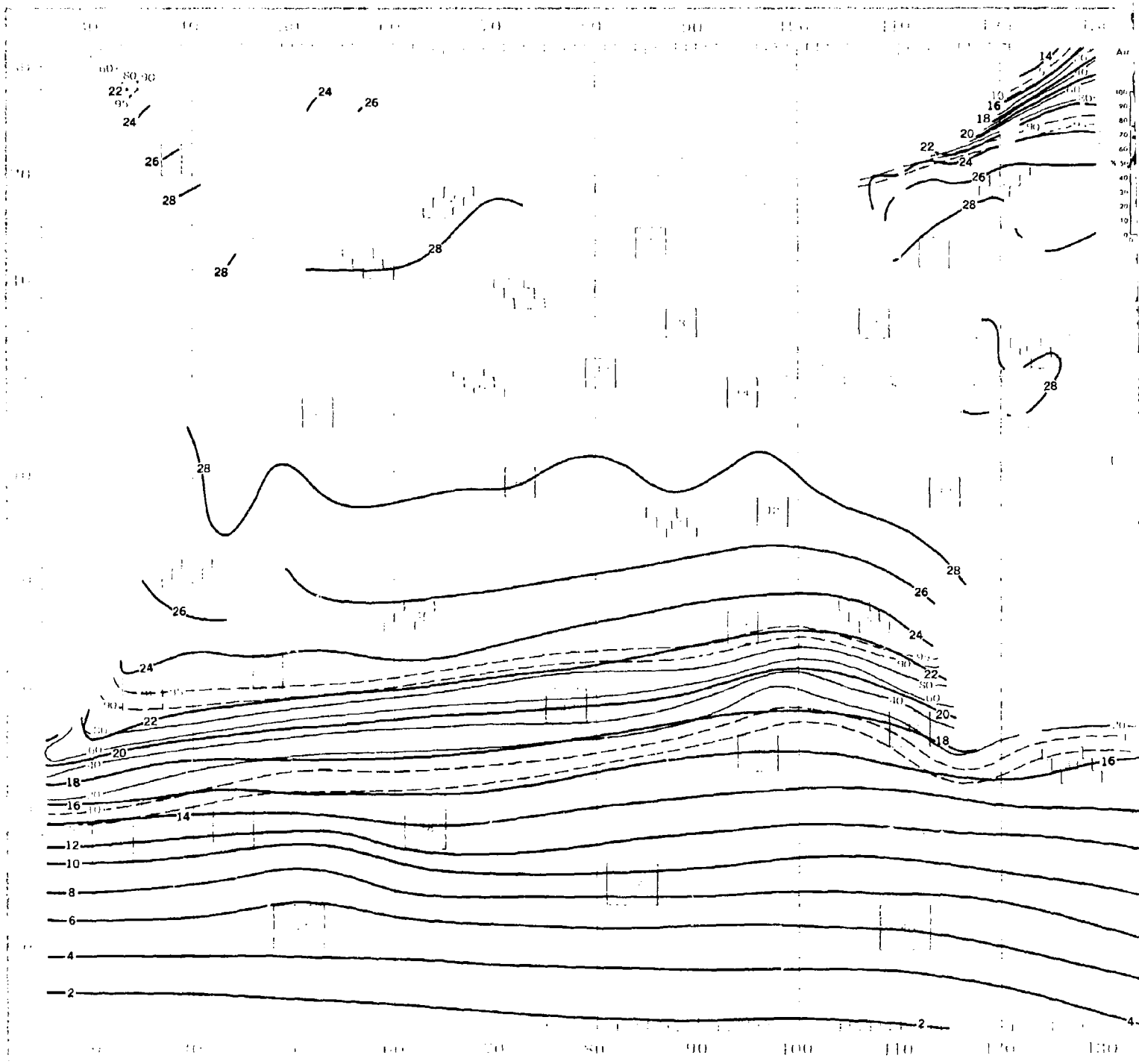


tive compilation of available data for specified areas without regard to suspected biases.

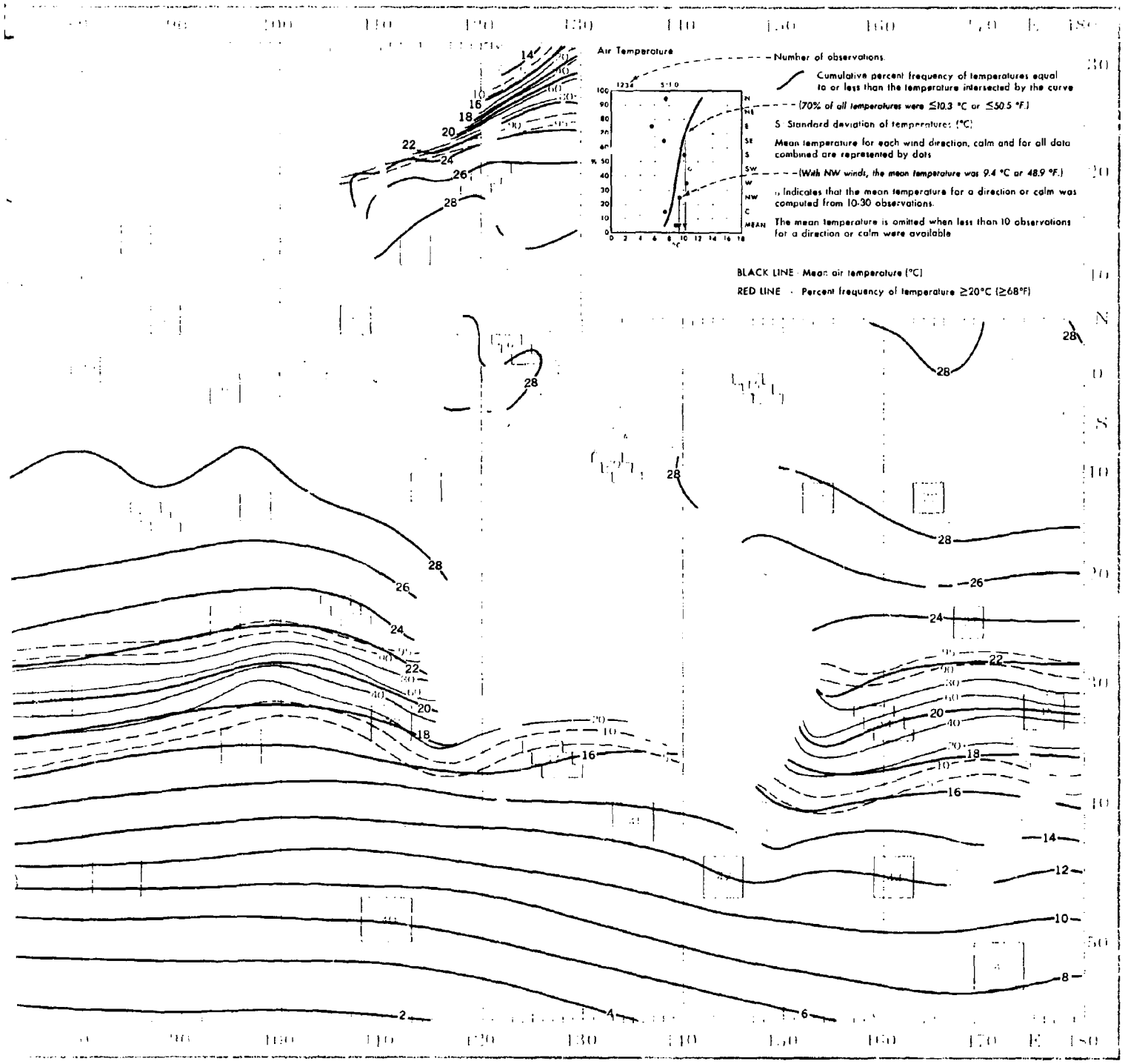
osite page) are based on all available data subjectively adjusted where bias was evident.

APRIL

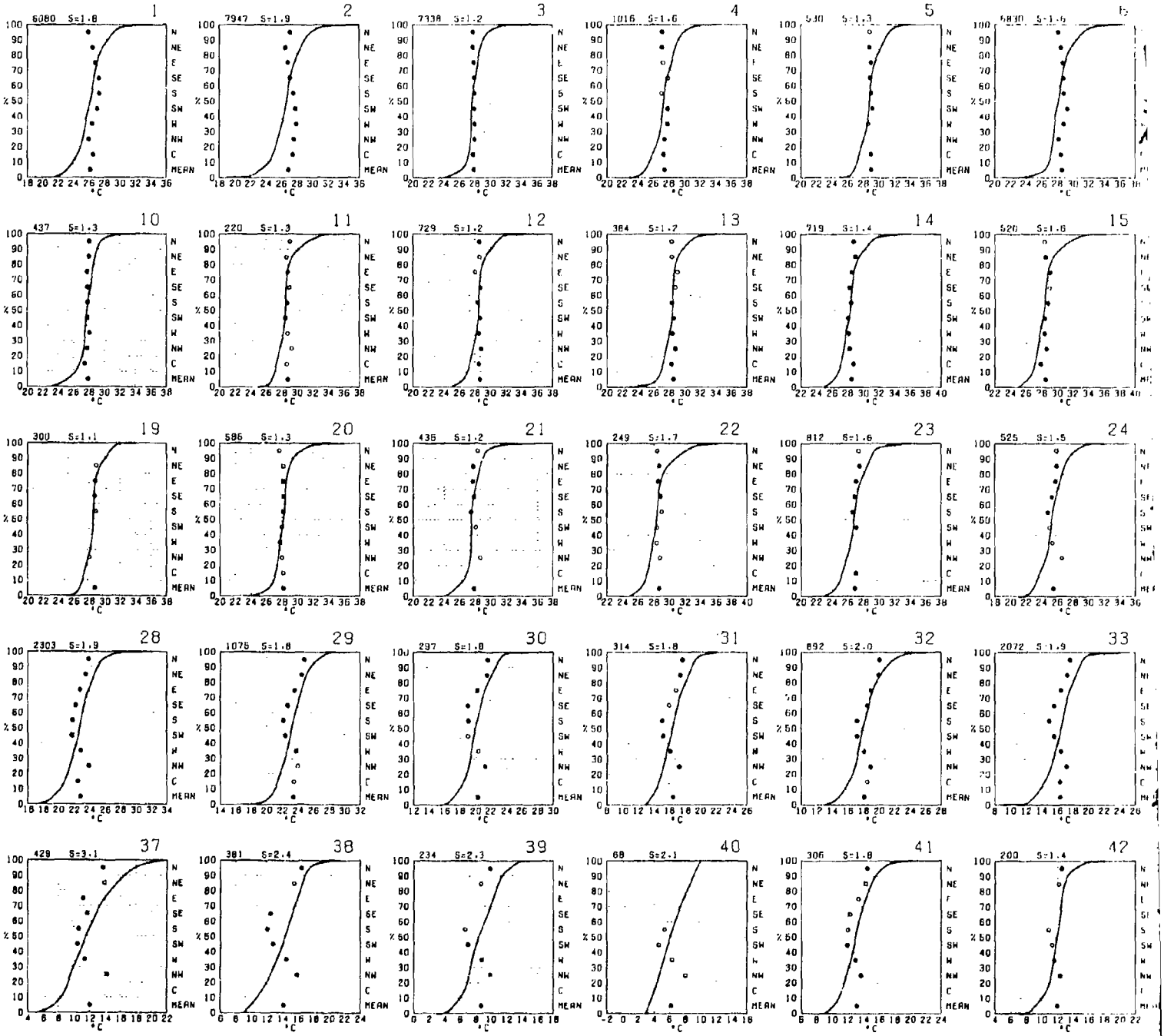
SU



SURFACE AIR TEMPERATURE



SURFACE AIR TEMPERATURE

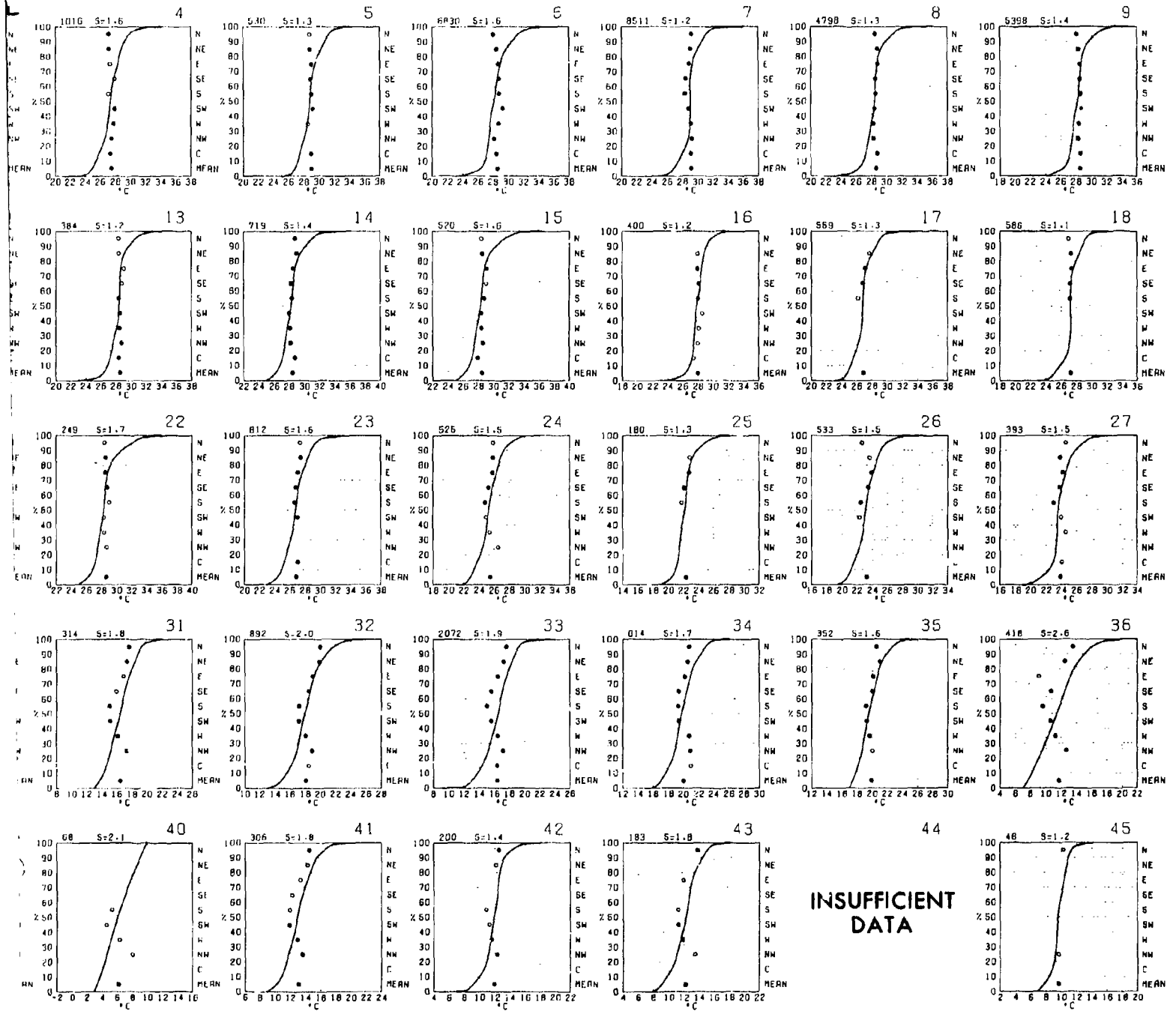


Graphs represent the objective compilation of available data for specified areas without re

The isopleth analyses (opposite page) are based on all available data subjectively adjuste

E

APRIL

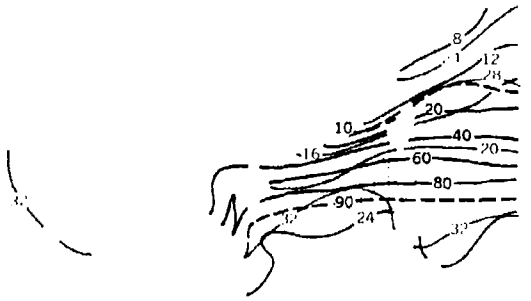


bjective compilation of available data for specified areas without regard to suspected biases.
opposite page) are based on all available data subjectively adjusted where bias was evident.

APRIL

TEMPERATURE EX

TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED (kts)

Temp (°C)	0-3	4-10	11-17	18-24	≥24
4-5	18	8	7	1	1
2-3	17	8	7	1	1
0-1	15	6	5	1	1
7-8	1	1	0	0	0
4-5	0	0	0	0	0
6-7	1	0	0	1	1
8-9	1	1	0	0	0
10-11	0	0	0	0	0
12-13	1	1	0	0	0
14-15	1	0	0	0	0
16-17	1	1	0	0	0
					3550

Wind speed and air temperature

Percent frequency of simultaneous occurrence of specified temperature (°C) and wind speed (knots)

(1% of all observations reported temperature 2-3°C simultaneously with wind speed of 22-33 kts.)

Indicates <.5% but >0.

Number of observations

Use of this table in determination of Potential Superstructure Icing is explained in the text.

BLACK LINE - Percent frequency of T-H index ≥24°C (75.2°F) (discomfort may be experienced due to heat)

BLUE LINE - Minimum (1%) air temperature (°C) (1% of the temperatures were equal to or less than the given value)

RED LINE - Maximum (99%) air temperature (°C) (1% of the temperatures were greater than the given value)

WIND SPEED AND AIR TEMPERATURE

WIND SPEED (KTS) 1

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	+	+	+	0	0
30.31	1	1	1	+	0
28.29	5	9	5	+	0
26.27	8	20	15	2	+
24.26	4	11	11	2	+
22.23	1	2	2	+	+
20.21	+	+	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

6118

WIND SPEED (KTS) 2

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	+	1	+	+	0
30.31	1	4	2	+	0
28.29	4	13	11	1	+
26.27	4	16	19	5	+
24.26	1	4	7	4	+
22.23	+	+	1	1	+
20.21	+	+	+	+	+
18.19	0	+	+	+	+
16.17	0	0	0	0	0
14.15	0	0	0	0	0

7965

WIND SPEED (KTS) 3

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	+	+	+	0	0
30.31	4	4	+	0	0
28.29	22	29	3	+	0
26.27	16	20	2	+	0
24.25	1	+	+	0	0
22.23	+	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

7375

WIND SPEED (KTS) 4

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	2	5	2	0	0
28.29	5	25	6	+	0
26.27	10	30	6	+	0
24.25	1	5	1	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1022

WIND SPEED (KTS) 5

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	2	1	0	0
30.31	8	15	4	+	0
28.29	14	38	7	+	+
26.27	4	4	1	1	0
24.25	0	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

535

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21	22-
36.37	0	+	+	
34.35	+	1	+	
32.33	+	3	1	
30.31	1	12	5	
28.29	5	34	15	
26.27	2	12	6	
24.25	+	+	+	
22.23	+	+	+	
20.21	0	+	0	
18.19	0	0	0	
16.17	0	0	0	

WIND SPEED (KTS) 10

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	3	+	0	0
28.29	27	36	4	0	0
26.27	9	12	2	0	0
24.25	3	1	1	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

440

WIND SPEED (KTS) 11

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	4	+	0	0
30.31	9	10	3	0	0
28.29	22	33	6	0	0
26.27	2	10	1	0	0
24.25	0	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

221

WIND SPEED (KTS) 12

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	0	0	0
30.31	6	13	2	0	0
28.29	18	39	8	+	0
26.27	2	7	3	+	0
24.25	+	+	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

748

WIND SPEED (KTS) 13

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	1	0	0
30.31	6	7	4	+	0
28.29	16	37	12	+	0
26.27	2	7	4	0	0
24.25	+	0	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

388

WIND SPEED (KTS) 14

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	+	0	0
30.31	9	9	2	0	0
28.29	22	28	6	1	0
26.27	6	13	3	+	0
24.25	+	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

719

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21	22-
34.35	+	+	0	0
32.33	2	2	1	
30.31	6	6	1	
28.29	21	28	6	
26.27	10	10	4	
24.25	+	+	+	
22.23	0	0	0	
20.21	0	0	0	
18.19	0	0	0	
16.17	0	0	0	
14.15	0	0	0	

WIND SPEED (KTS) 19

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	+	0	0
30.31	4	11	4	0	0
28.29	8	38	22	2	0
26.27	1	7	2	+	0
24.25	0	1	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

300

WIND SPEED (KTS) 20

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	0	+	0	0
32.33	0	1	1	+	0
30.31	1	5	3	0	0
28.29	7	33	27	1	0
26.27	3	8	8	1	0
24.25	0	1	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

686

WIND SPEED (KTS) 21

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	0	0	0	0
32.33	1	+	0	0	0
30.31	1	3	3	+	0
28.29	6	26	18	2	0
26.27	3	18	16	3	0
24.25	+	0	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

435

WIND SPEED (KTS) 22

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	0	0	0
32.33	3	2	+	0	0
30.31	3	10	1	0	0
28.29	9	28	18	1	0
26.27	4	10	7	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

250

WIND SPEED (KTS) 23

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	1	3	1	0	0
28.29	5	15	7	1	0
26.27	9	26	16	2	0
24.25	2	4	6	2	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

832

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
30.31	+	1	+	
28.29	1	5	7	
26.27	2	14	17	
24.25	2	12	21	
22.23	+	2	3	
20.21	0	0	0	
18.19	0	0	0	
16.17	0	0	0	
14.15	0	0	0	
12.13	0	0	0	
10.11	0	0	0	

WIND SPEED (KTS) 28

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	+	1	+	0	0
26.27	1	3	2	1	+
24.25	2	11	11	4	1
22.23	3	14	16	5	1
20.21	1	6	9	4	1
18.19	+	1	1	+	+
16.17	0	0	+	+	+
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

2308

WIND SPEED (KTS) 29

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	0	+	0
28.29	+	+	1	+	0
26.27	1	4	6	2	0
24.25	2	9	16	6	+
22.23	2	12	17	7	1
20.21	+	4	5	3	+
18.19	+	+	1	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1076

WIND SPEED (KTS) 30

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	1	2	0	0
22.23	3	12	9	1	0
20.21	3	12	18	3	0
18.19	3	13	12	1	1
16.17	+	2	5	+	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

289

WIND SPEED (KTS) 31

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	1	1	1	2	0
18.19	2	8	12	5	0
16.17	4	11	18	6	1
14.15	1	11	6	4	1
12.13	+	1	1	2	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

314

WIND SPEED (KTS) 32

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	+	+	+	0	0
22.23	+	4	1	0	0
20.21	1	5	8	2	+
18.19	2	15	18	3	+
16.17	2	13	12	3	1
14.15	+	1	3	1	1
12.13	0	0	+	+	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

895

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
22.23	+	+	+	
20.21	+	1	1	
18.19	2	10	12	
16.17	3	16	17	
14.15	1	9	9	
12.13	+	2	2	
10.11	0	+	+	
8.9	0	0	0	
6.7	0	0	0	
4.5	0	0	0	
2.3	0	0	0	

WIND SPEED (KTS) 37

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	1	+	0
18.19	0	+	2	2	1
16.17	0	1	3	4	1
14.15	+	3	4	5	2
12.13	2	5	9	5	2
10.11	1	7	11	7	1
8.9	2	3	6	4	2
6.7	+	+	1	1	2
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

429

WIND SPEED (KTS) 38

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	0	1	0	0
18.19	0	1	2	1	+
16.17	1	8	12	8	2
14.15	1	10	12	6	2
12.13	1	4	7	6	3
10.11	+	+	3	4	4
8.9	0	0	1	1	2
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

381

WIND SPEED (KTS) 39

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	+	0
12.13	+	1	6	5	1
10.11	+	6	14	5	2
8.9	1	3	6	7	3
6.7	+	9	10	9	6
4.5	+	1	1	2	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

234

WIND SPEED (KTS) 40

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	1	0	4	1	1
8.9	0	3	4	4	7
6.7	0	16	10	3	0
4.5	0	4	10	16	6
2.3	0	4	1	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

68

WIND SPEED (KTS) 41

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	1	1
16.17	0	1	6	1	+
14.15	2	9	14	7	2
12.13	1	10	17	9	1
10.11	+	3	9	5	1
8.9	0	0	1	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

307

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
16.17	0	0	1	
14.15	1	3	3	
12.13	1	11	27	
10.11	1	6	13	
8.9	0	1	3	
6.7	0	0	1	
4.5	0	0	0	
2.3	0	0	0	
0.1	0	0	0	
-2.-1	0	0	0	
-4.-3	0	0	0	

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

PERATURE

APRIL

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	2	5	2	0	0
28.29	5	25	6	+	0
26.27	10	30	6	+	0
24.25	1	5	1	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1022

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	2	1	0	0
30.31	8	16	4	+	0
28.29	14	38	7	+	+
26.27	4	4	1	1	0
24.25	0	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

536

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.37	0	+	+	0	0
34.35	+	1	+	0	0
32.33	+	3	1	+	0
30.31	1	12	5	+	0
28.29	5	34	16	+	+
26.27	2	12	6	1	0
24.25	+	+	+	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6832

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	1	2	+	0	0
30.31	8	17	3	+	0
28.29	18	39	6	+	0
26.27	1	3	1	+	+
24.25	+	+	+	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

8542

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	+	0	0
30.31	7	9	2	+	0
28.29	22	33	8	1	0
26.27	3	9	3	+	0
24.25	+	1	+	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4841

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	0	0	0	0
34.35	+	+	+	0	0
32.33	1	1	+	+	0
30.31	5	8	2	+	0
28.29	19	35	8	+	0
26.27	5	11	3	+	0
24.25	+	1	+	+	0
22.23	+	+	+	0	0
20.21	+	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5409

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	1	0	0
30.31	6	7	4	+	0
28.29	16	37	12	+	0
26.27	2	7	4	0	0
24.25	+	0	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

388

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	1	1	+	0	0
30.31	9	9	2	0	0
28.29	27	26	6	1	0
26.27	6	13	3	+	0
24.25	+	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

719

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	0	0	0	0
32.33	2	2	1	0	0
30.31	6	6	1	+	0
28.29	21	28	6	1	0
26.27	10	10	4	+	0
24.25	+	+	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

522

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	1	0	0
30.31	+	4	2	+	0
28.29	6	32	18	1	0
26.27	3	20	8	1	0
24.25	0	2	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

416

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	1	+	2	1	0
28.29	1	5	14	3	0
26.27	1	15	39	9	0
24.25	+	2	4	1	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

560

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	+	2	1	0
28.29	1	10	21	3	0
26.27	2	14	34	8	+
24.25	+	1	2	1	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

587

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	0	0	0
32.33	3	2	+	0	0
30.31	3	10	1	0	0
28.29	9	28	10	1	0
26.27	4	10	7	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

250

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	1	3	1	0	0
28.29	5	15	7	1	0
26.27	9	26	16	2	0
24.25	2	4	6	2	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

832

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	1	+	0	0
28.29	1	5	2	1	0
26.27	2	14	17	4	+
24.25	2	12	21	9	+
22.23	+	2	3	2	1
20.21	0	0	0	+	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

525

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	2	2	0	0
24.26	1	3	7	1	0
22.23	4	24	34	2	0
20.21	1	9	11	0	0
18.19	0	0	1	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.14	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

181

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	1	0	0
26.27	1	3	5	1	0
24.26	3	12	16	2	0
22.23	3	12	27	5	0
20.21	+	2	6	1	0
18.18	0	+	+	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

533

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	0	0	0
28.29	0	1	1	0	0
26.27	2	6	6	1	0
24.26	4	13	17	6	1
22.23	4	13	22	4	1
20.21	0	1	1	+	0
18.18	0	+	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

393

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	1	1	1	2	0
18.19	2	8	12	5	0
16.17	4	11	18	6	1
14.15	1	11	6	4	1
12.13	+	1	1	2	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

314

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	+	+	+	0	0
22.23	+	4	1	0	0
20.21	1	6	8	2	+
18.19	2	16	18	3	+
16.17	2	13	12	3	1
14.15	+	1	3	1	1
12.13	0	0	+	+	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

896

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	+	+	+	0
20.21	+	1	1	+	+
18.19	2	10	12	4	+
16.17	3	16	17	4	1
14.16	1	9	9	3	1
12.13	+	2	2	1	+
10.11	0	+	+	+	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

2078

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	0	1	+	0	0
22.23	2	5	8	3	+
20.21	4	14	16	5	2
18.19	2	12	14	6	1
16.17	0	3	2	2	0
14.16	0	0	+	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

617

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	0	0	1	0	0
22.23	1	8	7	2	+
20.21	+	14	18	7	1
18.19	1	12	19	4	0
16.17	+	3	3	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

362

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	+	1	+	0
16.17	0	1	4	1	+
14.16	+	3	9	4	1
12.13	1	5	11	5	1
10.11	2	5	14	7	2
8.9	1	6	4	5	1
6.7	+	+	2	1	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

418

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	1	0	4	1	1
8.9	0	3	4	4	7
6.7	0	16	10	3	0
4.5	0	4	10	16	8
2.3	0	4	1	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

68

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	1	1
16.17	0	1	6	1	+
14.16	2	9	14	7	2
12.13	1	10	17	8	1
10.11	+	3	9	5	1
8.9	0	0	1	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

307

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	1	1	1
14.16	1	2	3	3	1
12.13	1	11	27	16	6
10.11	1	8	13	4	2
8.9	0	1	3	1	0
6.7	0	0	1	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

200

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	1	0	0	0
16.17	0	0	2	1	0
14.15	1	4	11	8	1
12.13	2	10	19	9	3
10.11	1	4	8	6	4
8.9	0	0	2	2	3
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

183

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	0	0	0	4
8.8	0	0	0	0	0
6.7	0	4	25	21	11
4.5	4	4	18	4	0
2.3	0	0	4	4	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

28

45

WIND SPEED (KTS)

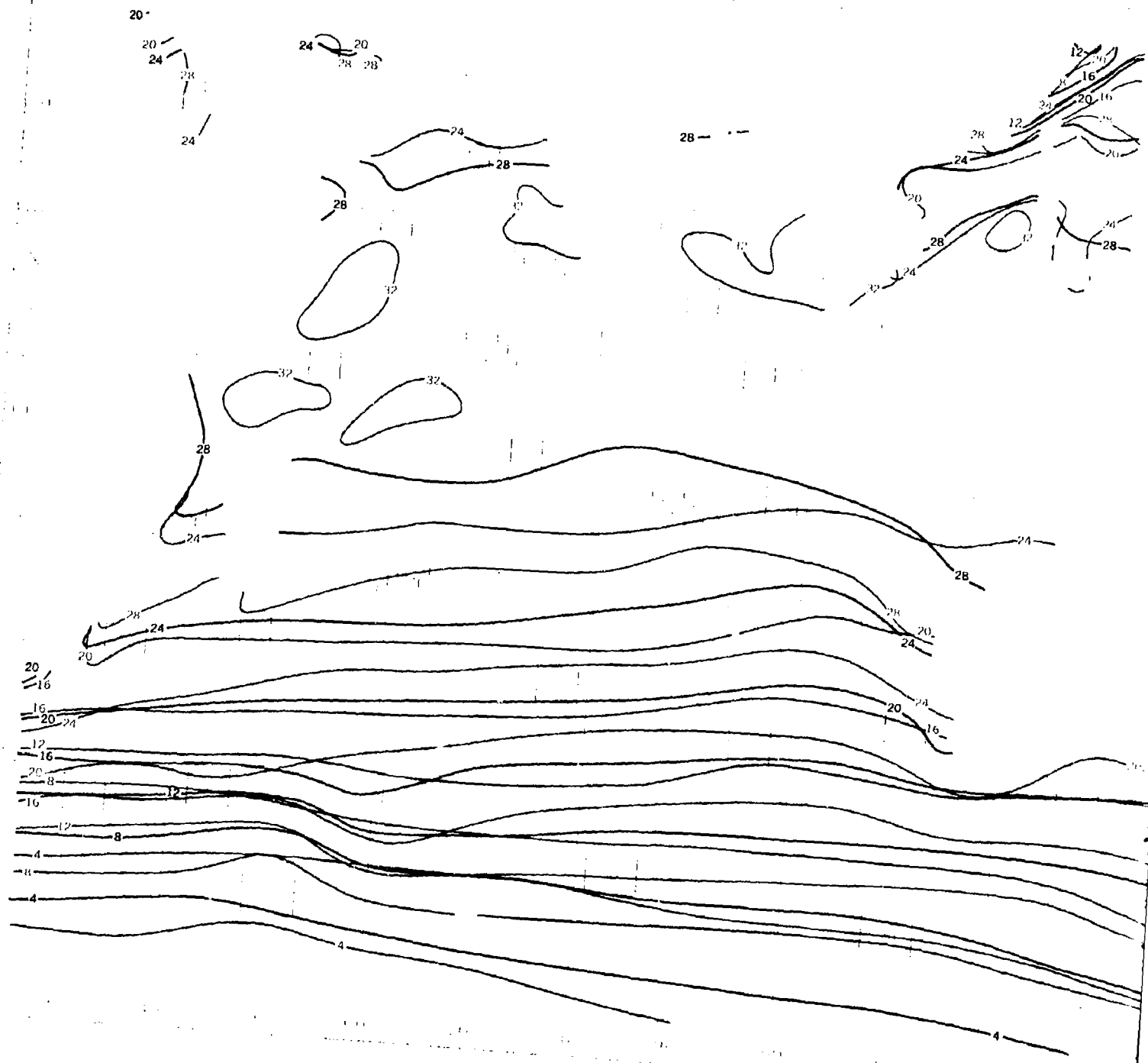
TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	2	8	4	0
10.11	0	0	17	15	0
8.9	0	6	25	23	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

48

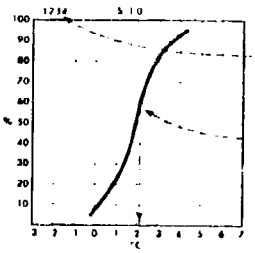
ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

APRIL

SEA



SEA SURFACE TEMPERATURE



Sea surface temperature

Number of observations

Cumulative percent frequency of sea surface temperatures equal to or less than the temperature intersected by the curve

(60% of all observed sea surface temperatures were ≤21°C or ≤35.8°F.)

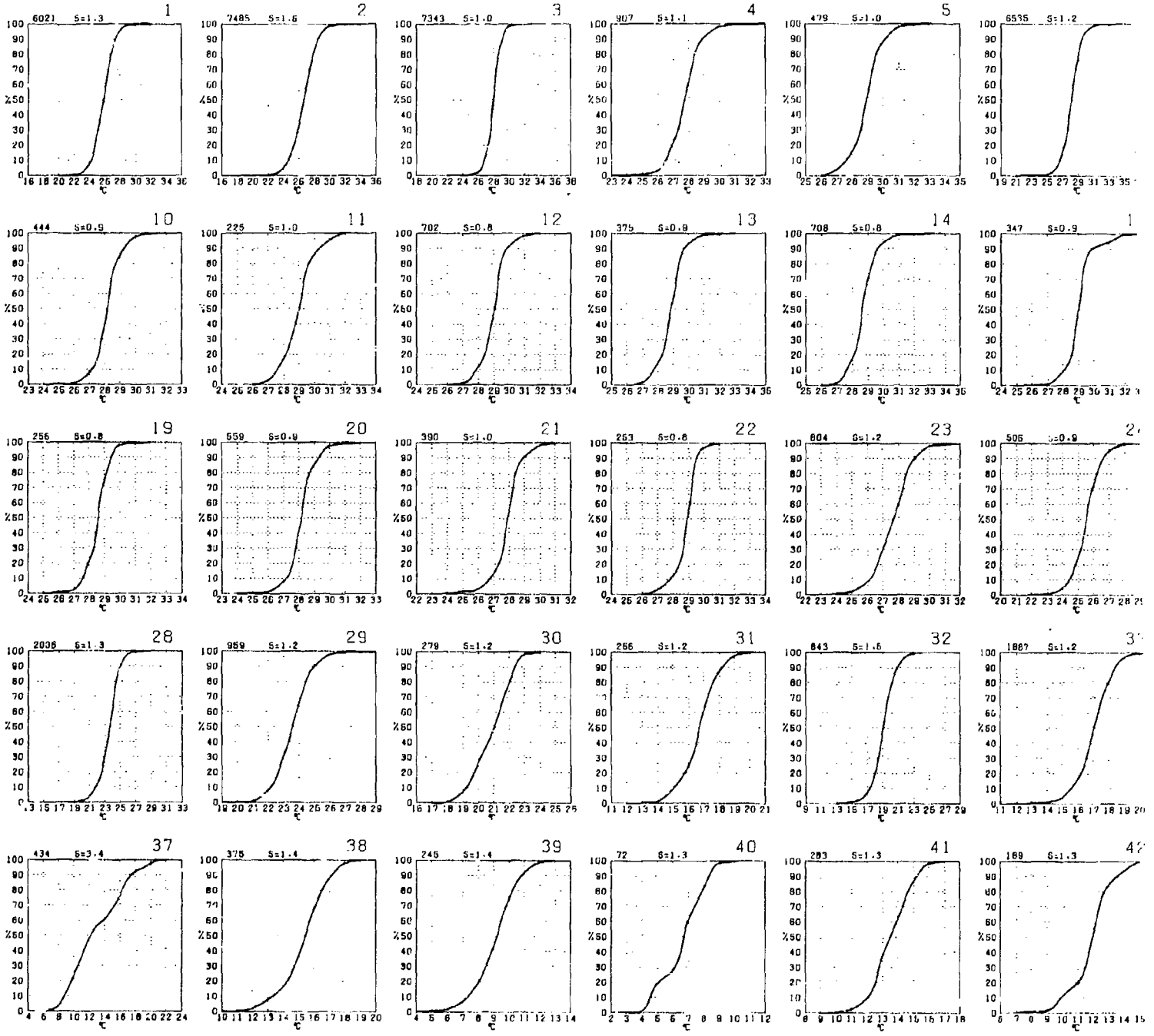
S Standard deviation of sea surface temperatures (°C)

BLACK LINE Mean sea surface temperature (°C)

BLUE LINE Minimum (1%) sea surface temperature (°C) (1% of the temperatures were equal to or less than the given value)

RED LINE Maximum (99%) sea surface temperature (°C) (1% of the temperatures were greater than the given value)

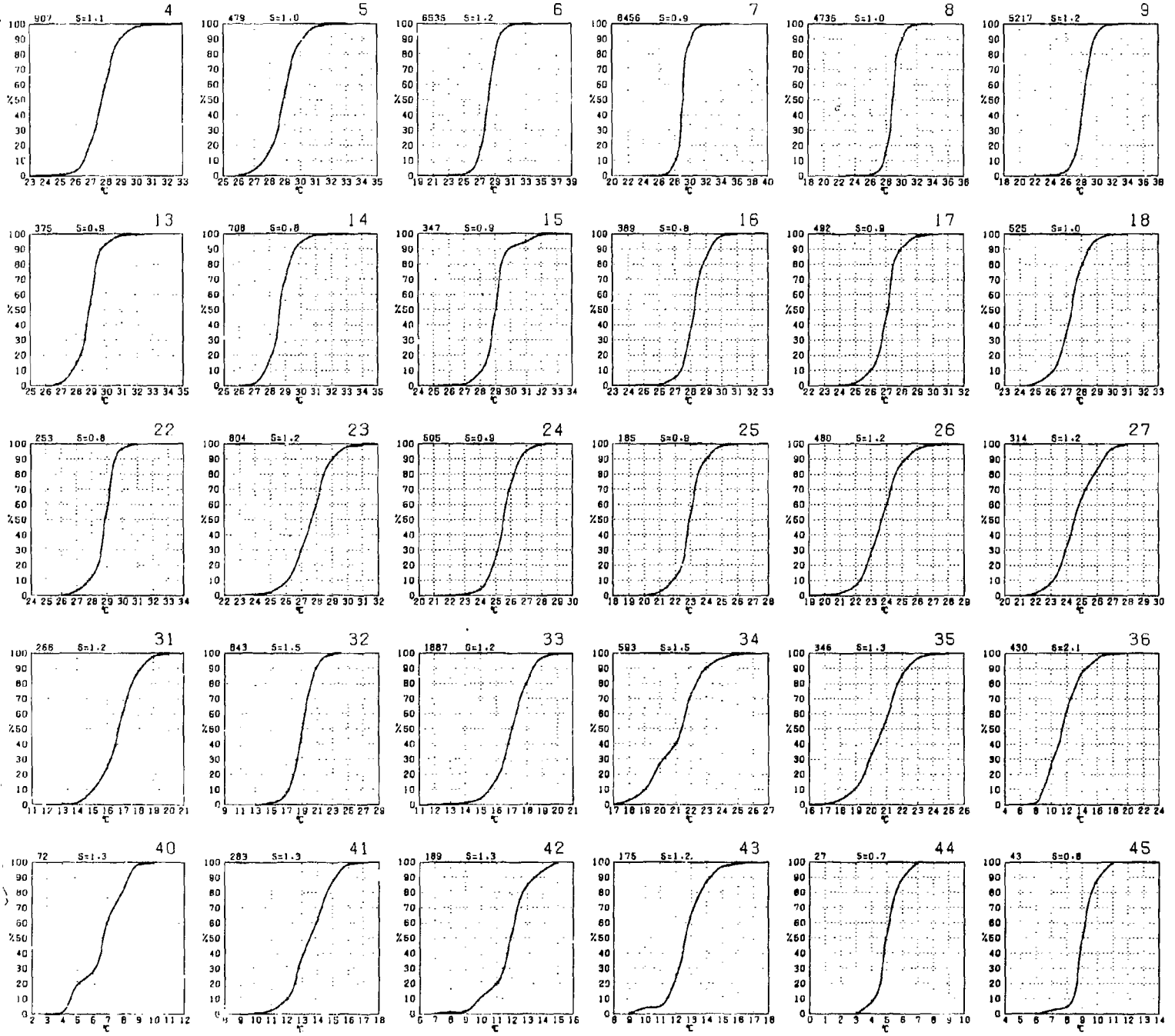
SEA SURFACE TEMPERATURE



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust

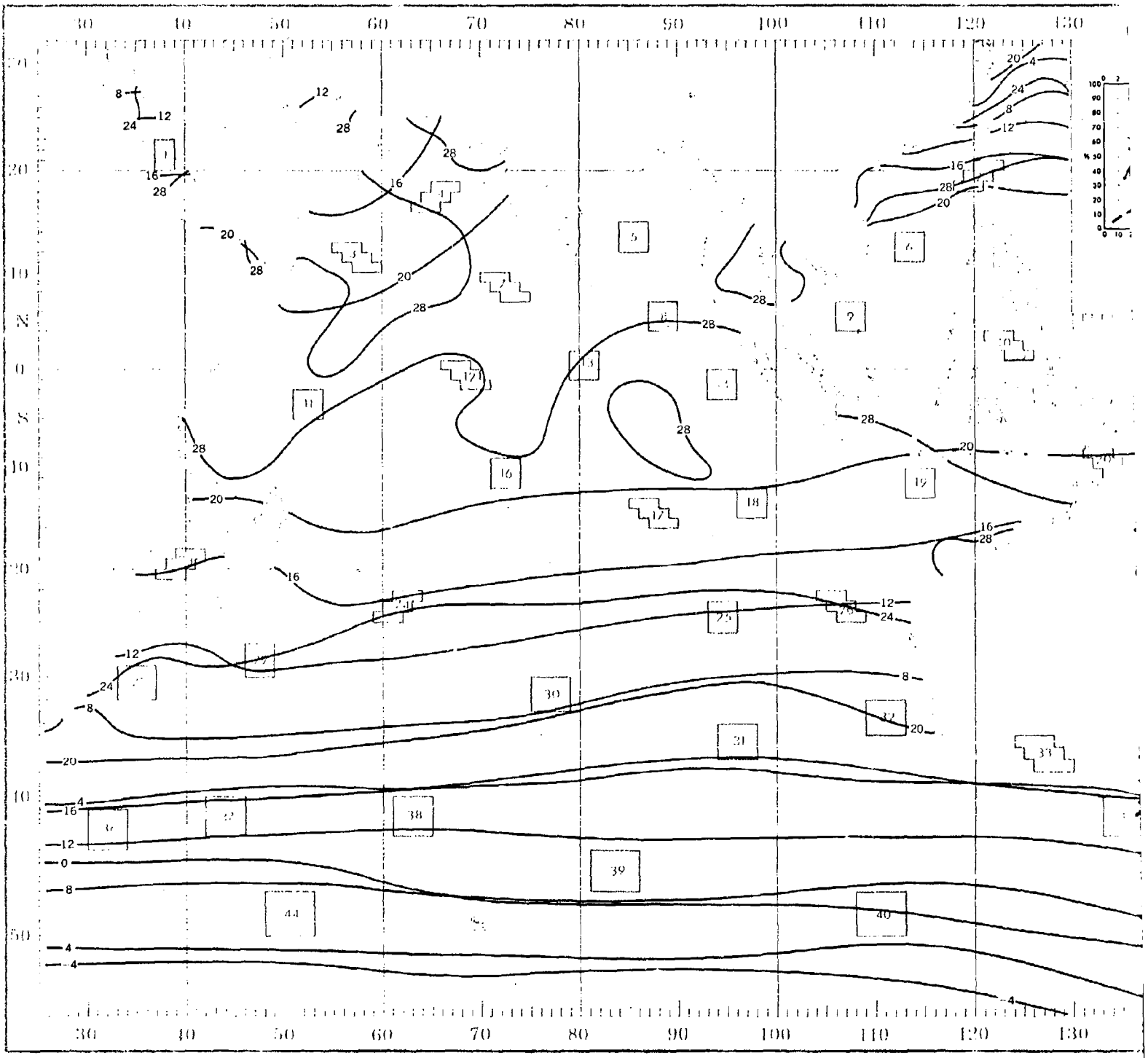
E

APRIL

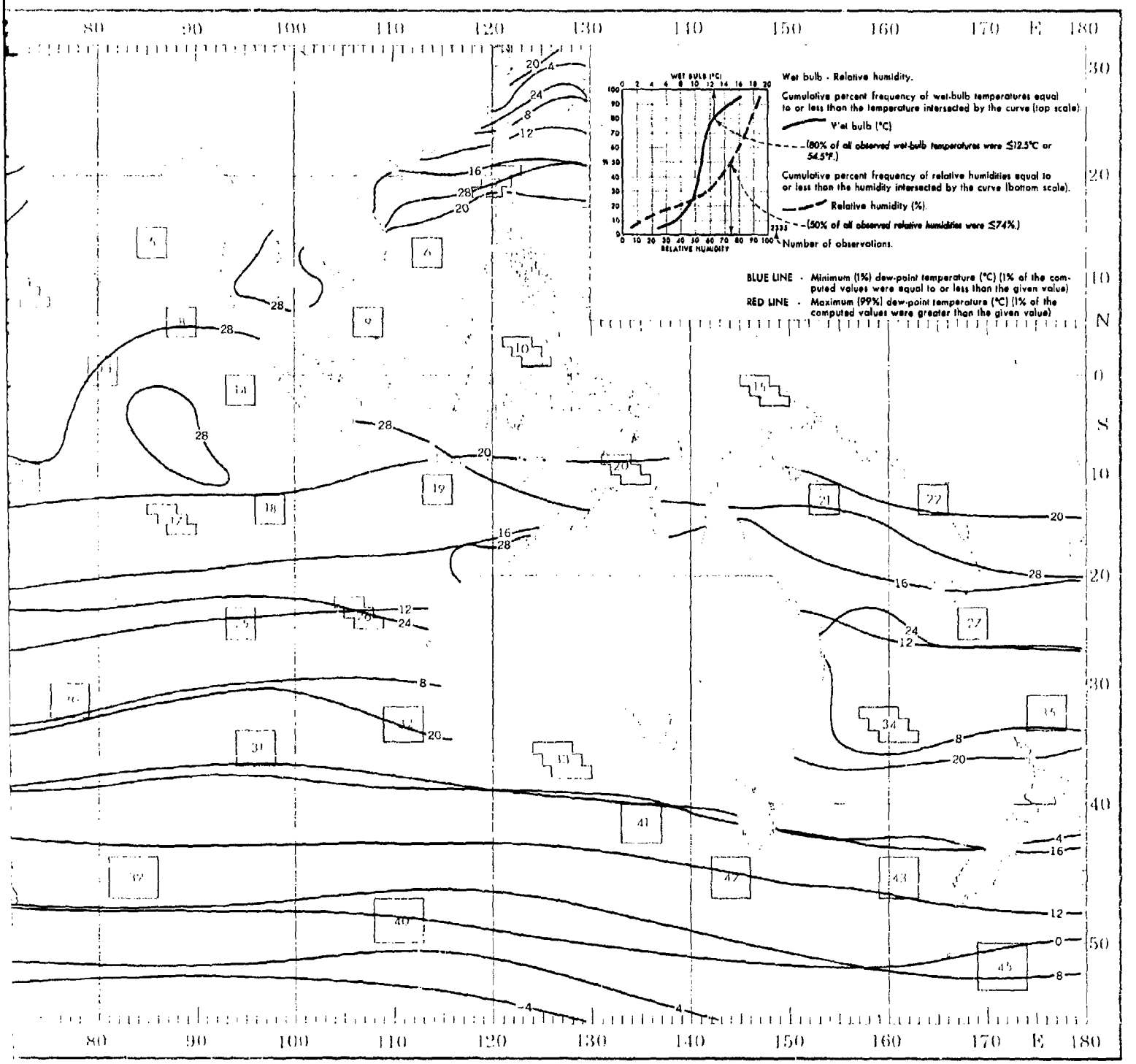


jective compilation of available data for specified areas without regard to suspected biases.
›posite page) are based on all available data subjectively adjusted where bias was evident.

APRIL



HUMIDITY


80
90
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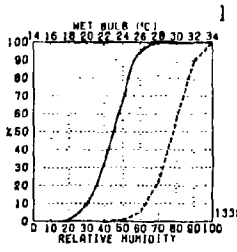
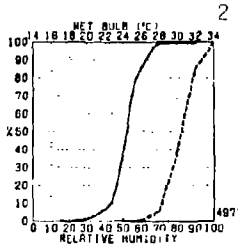
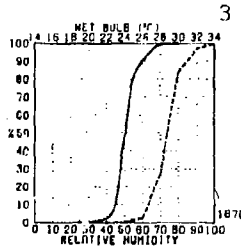
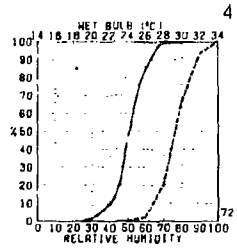
WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C)
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

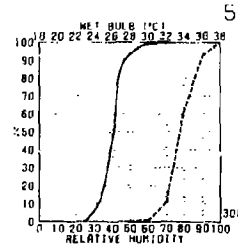
WET BULB AND RELATIVE HUMIDITY

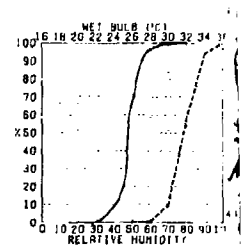


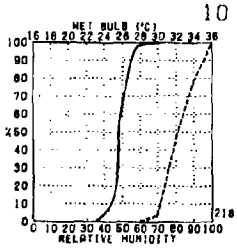


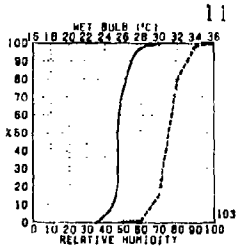


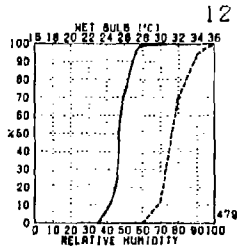


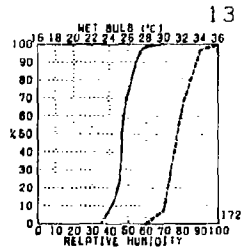


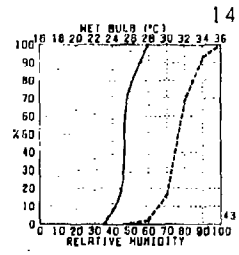


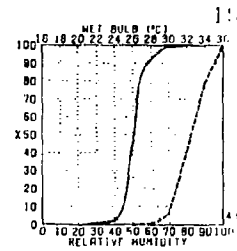


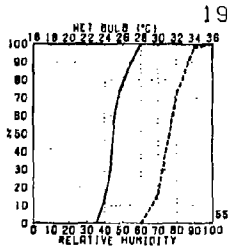


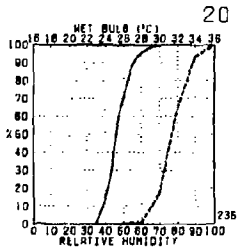


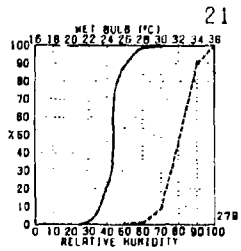


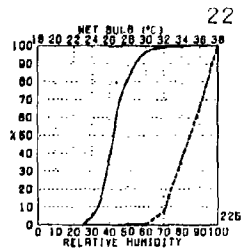


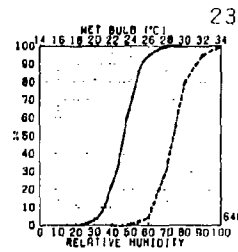












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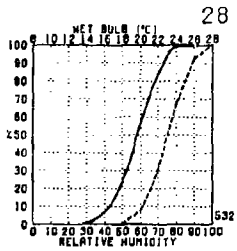
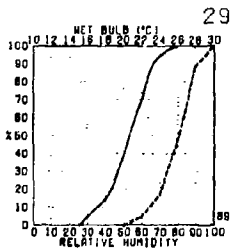
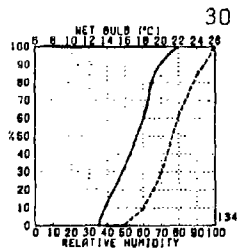
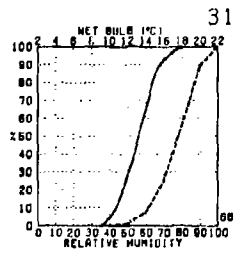
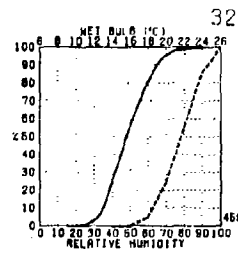
INSUFFICIENT DATA

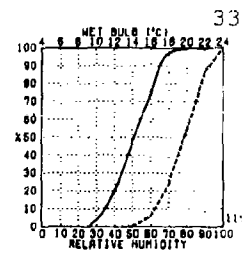












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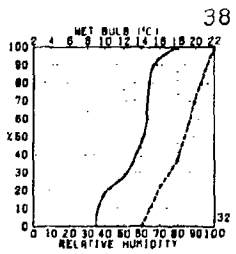

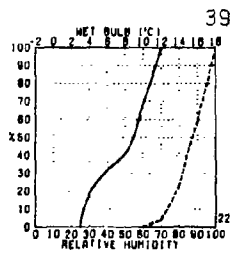

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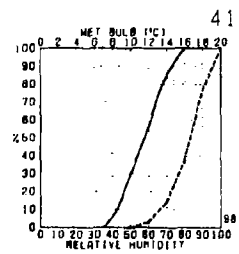

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The **isopleth** analyses (opposite page) are based on all available data subjectively adjuste

UMIDITY

APRIL

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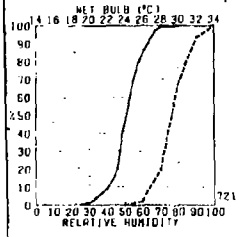

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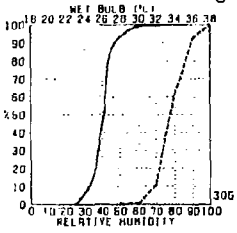

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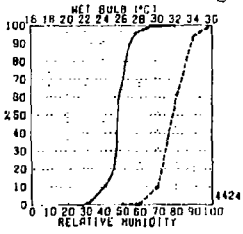

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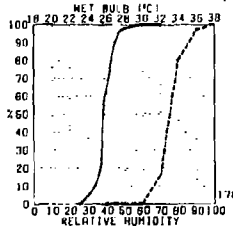

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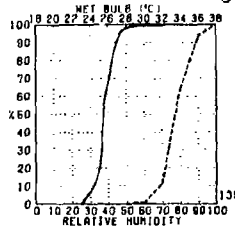

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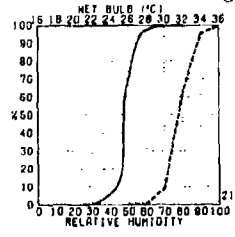

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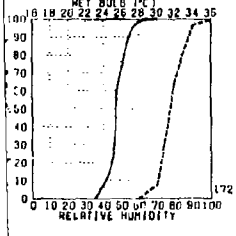

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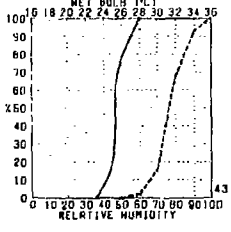

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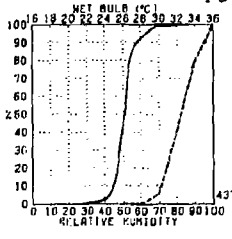

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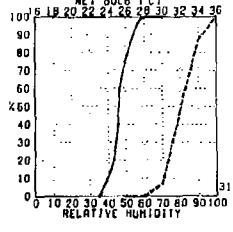

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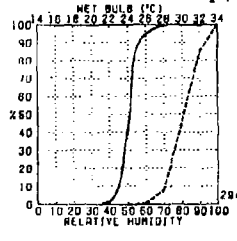

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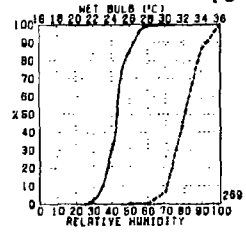

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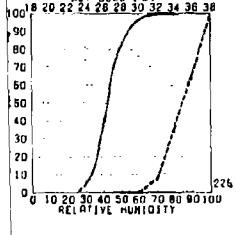

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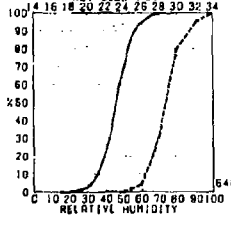

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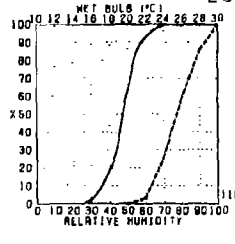
INSUFFICIENT DATA

25



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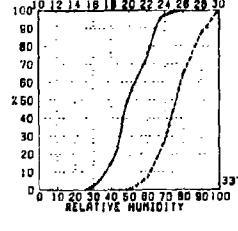

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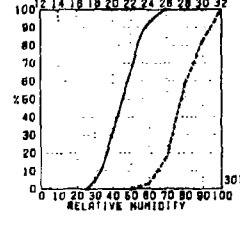

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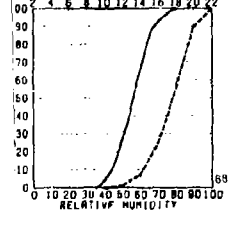

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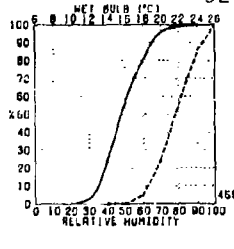

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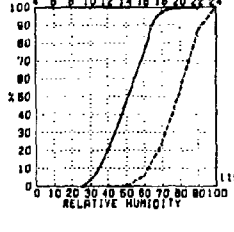

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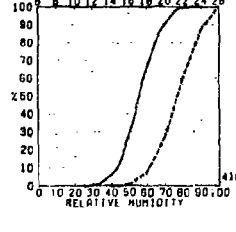

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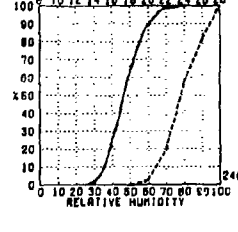

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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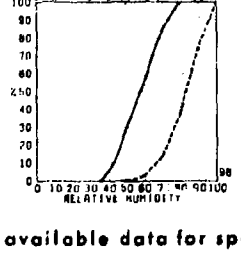

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INSUFFICIENT DATA

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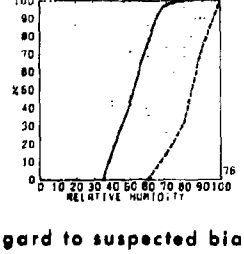

44

INSUFFICIENT DATA

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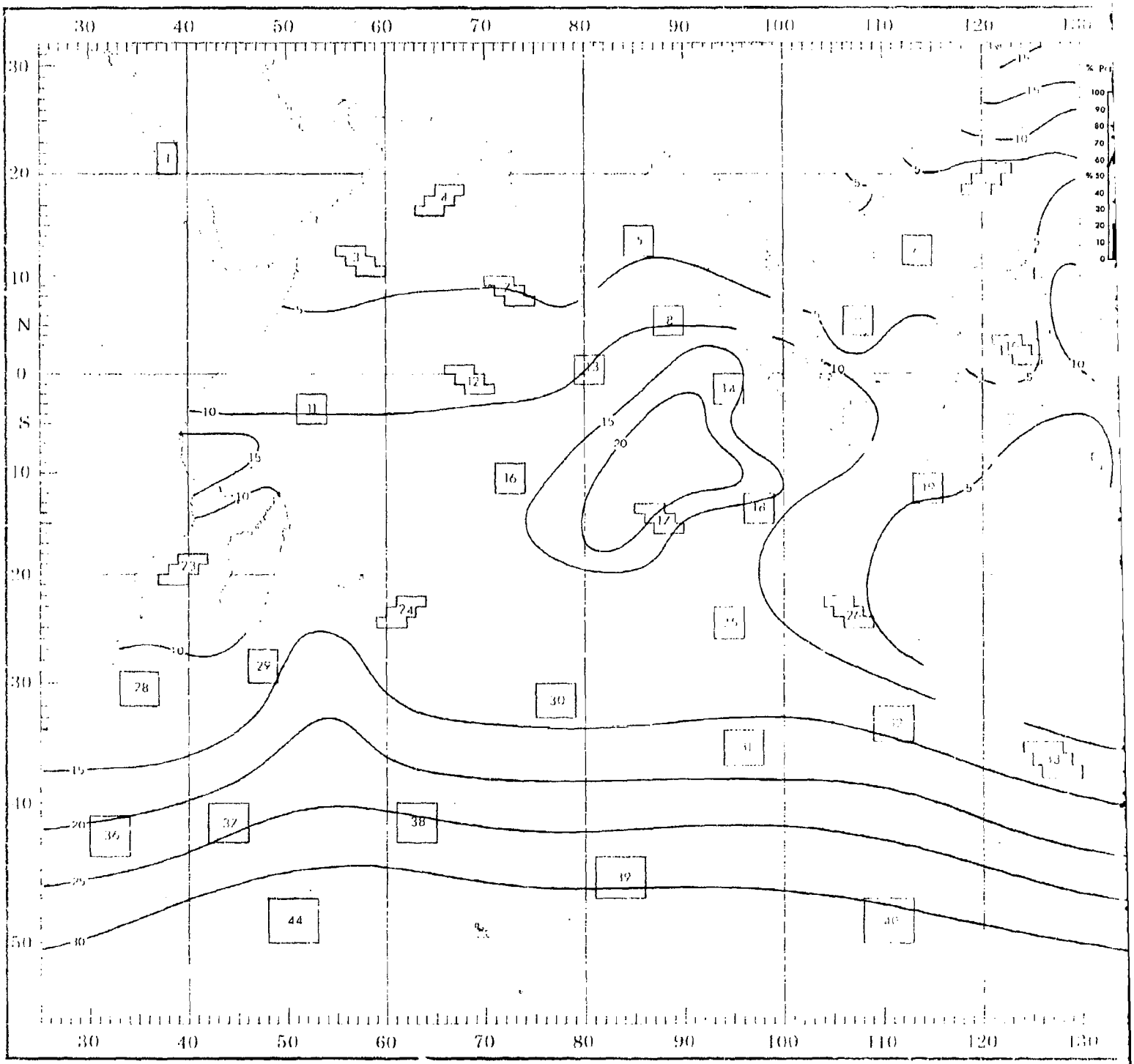
INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

APRIL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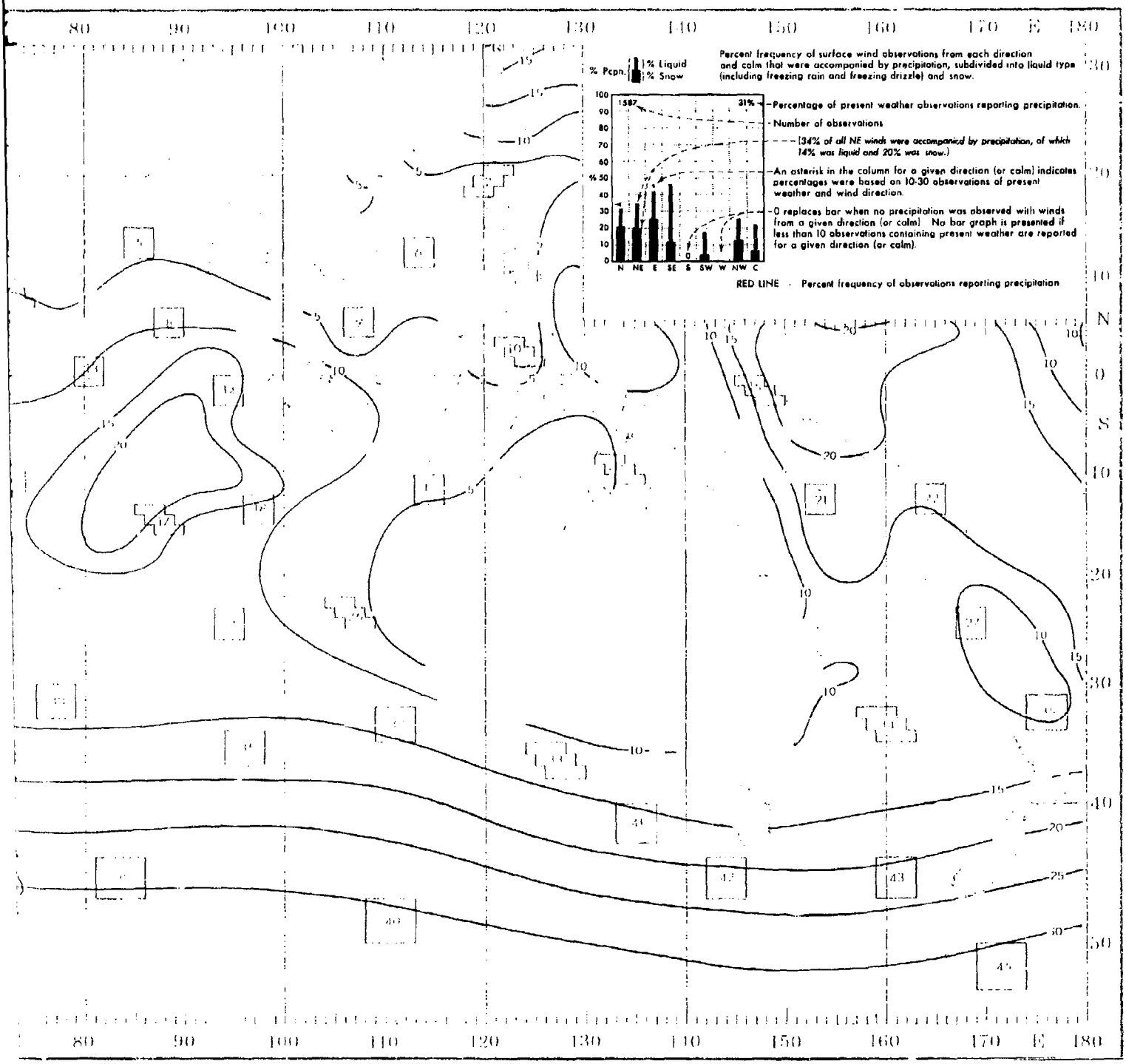
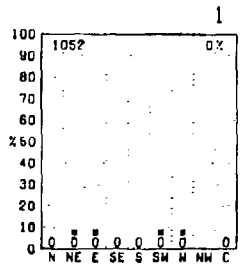
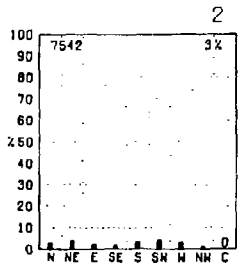
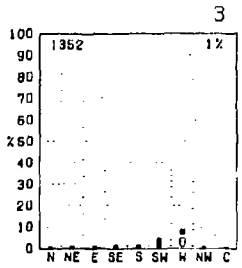
PRECIPITATION

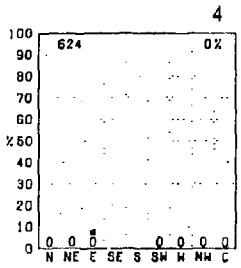


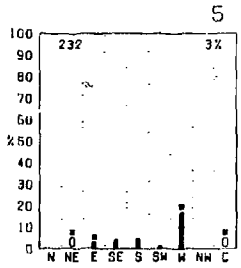
PRECIPITATION

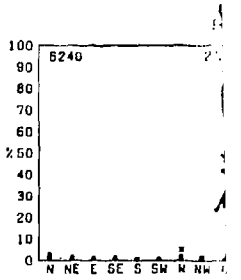


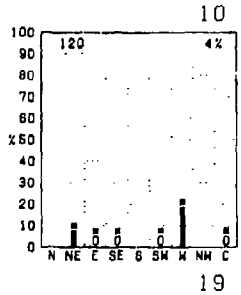


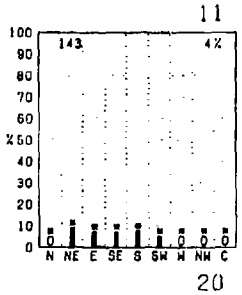


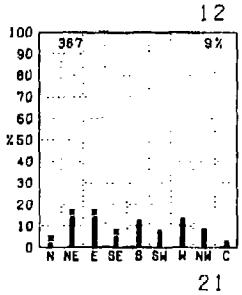


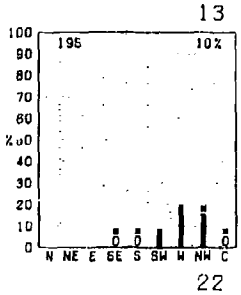


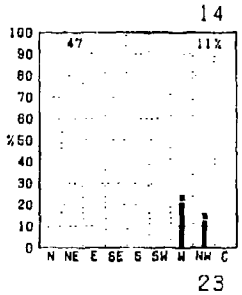


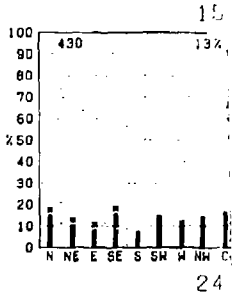


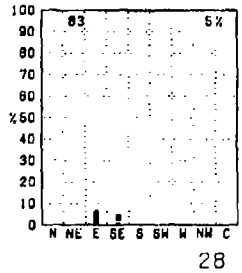


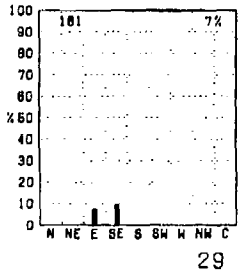


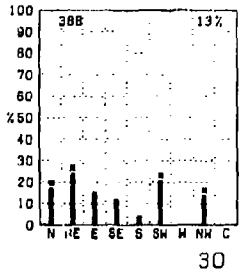


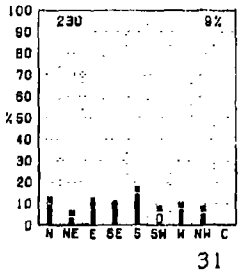


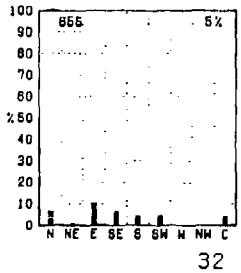


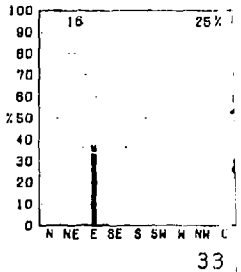


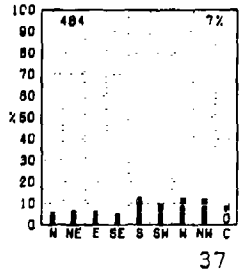


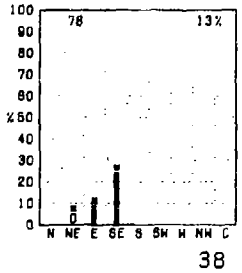


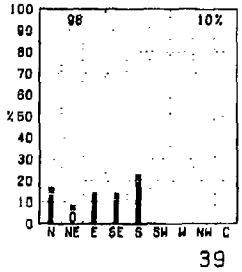


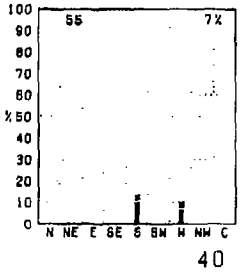


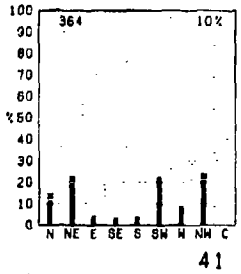


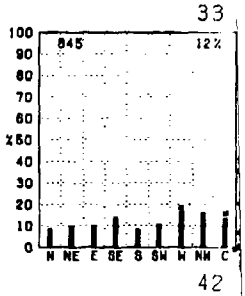












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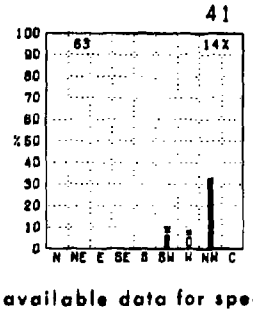


42

INSUFFICIENT DATA

INSUFFICIENT DATA

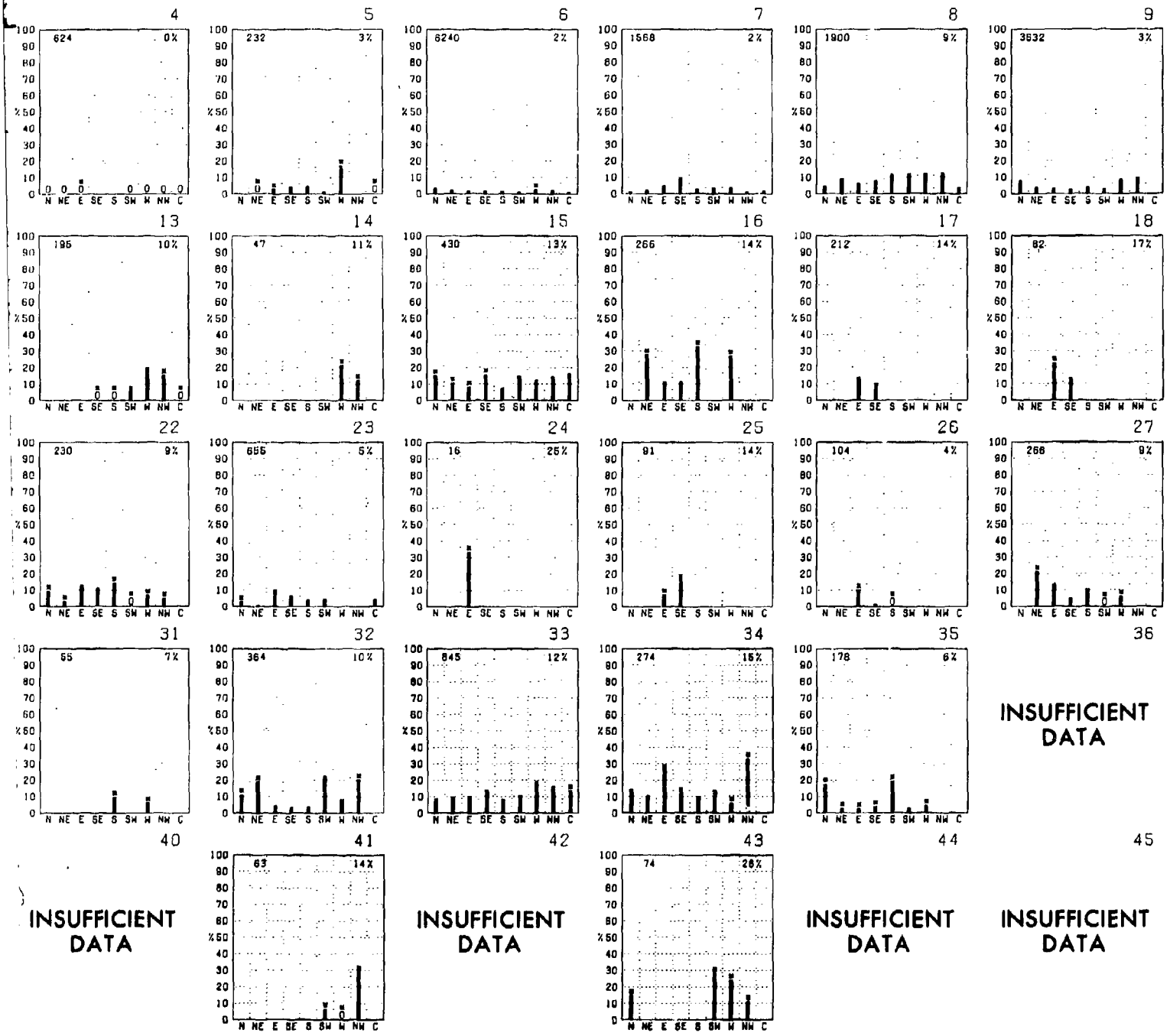
INSUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

APRIL



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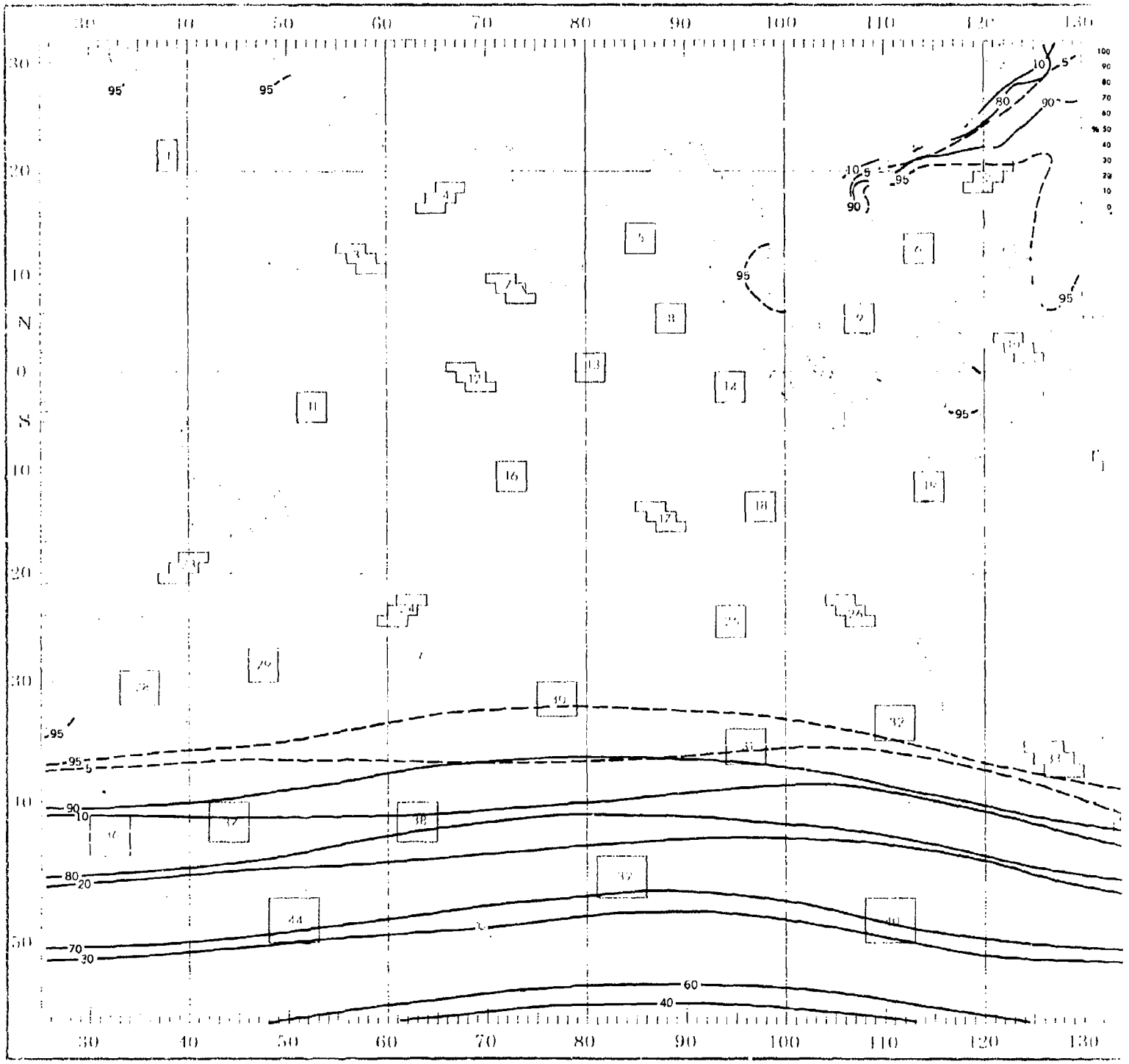
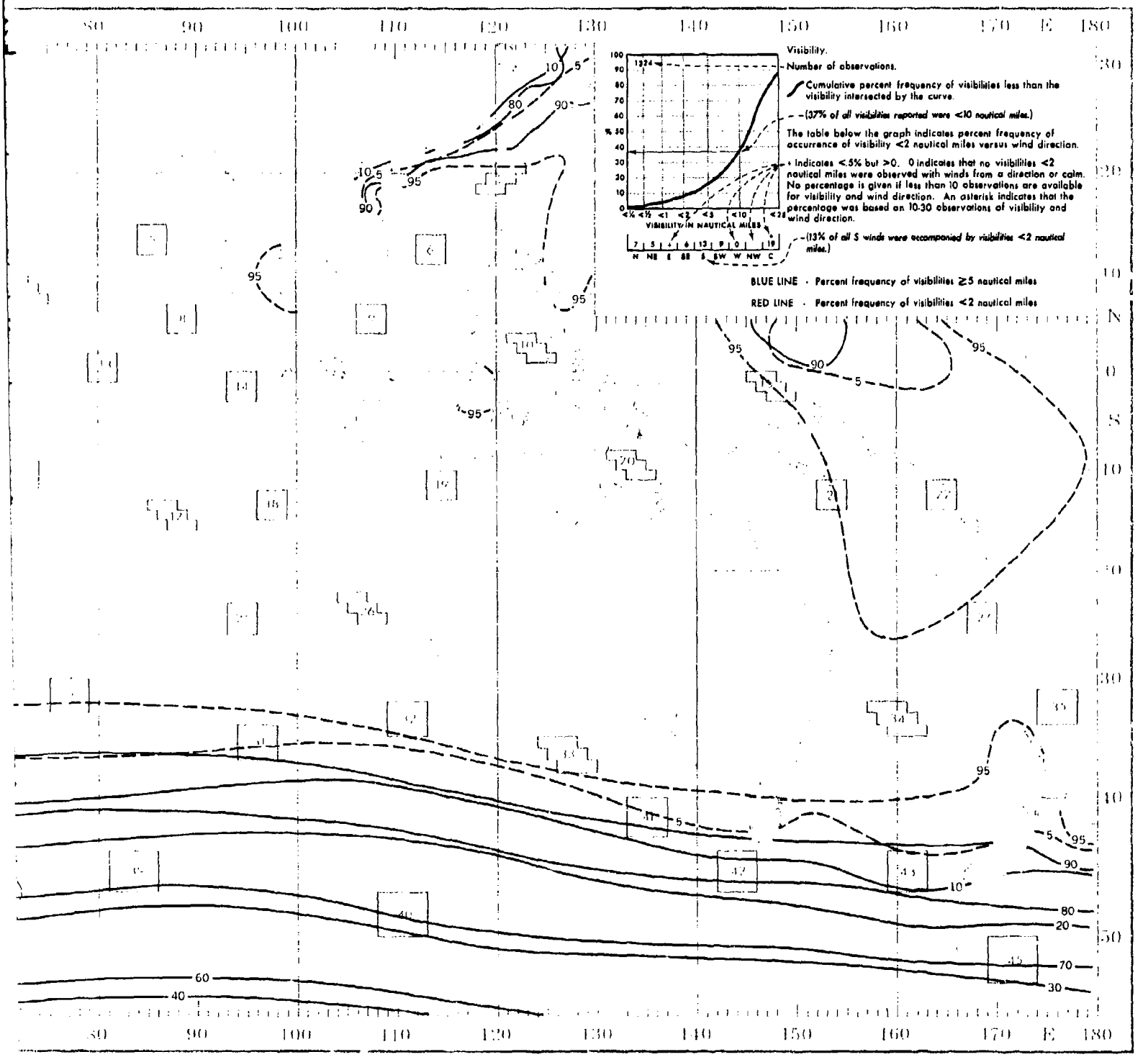
posite page) are based on all available data subjectively adjusted where bias was evident.

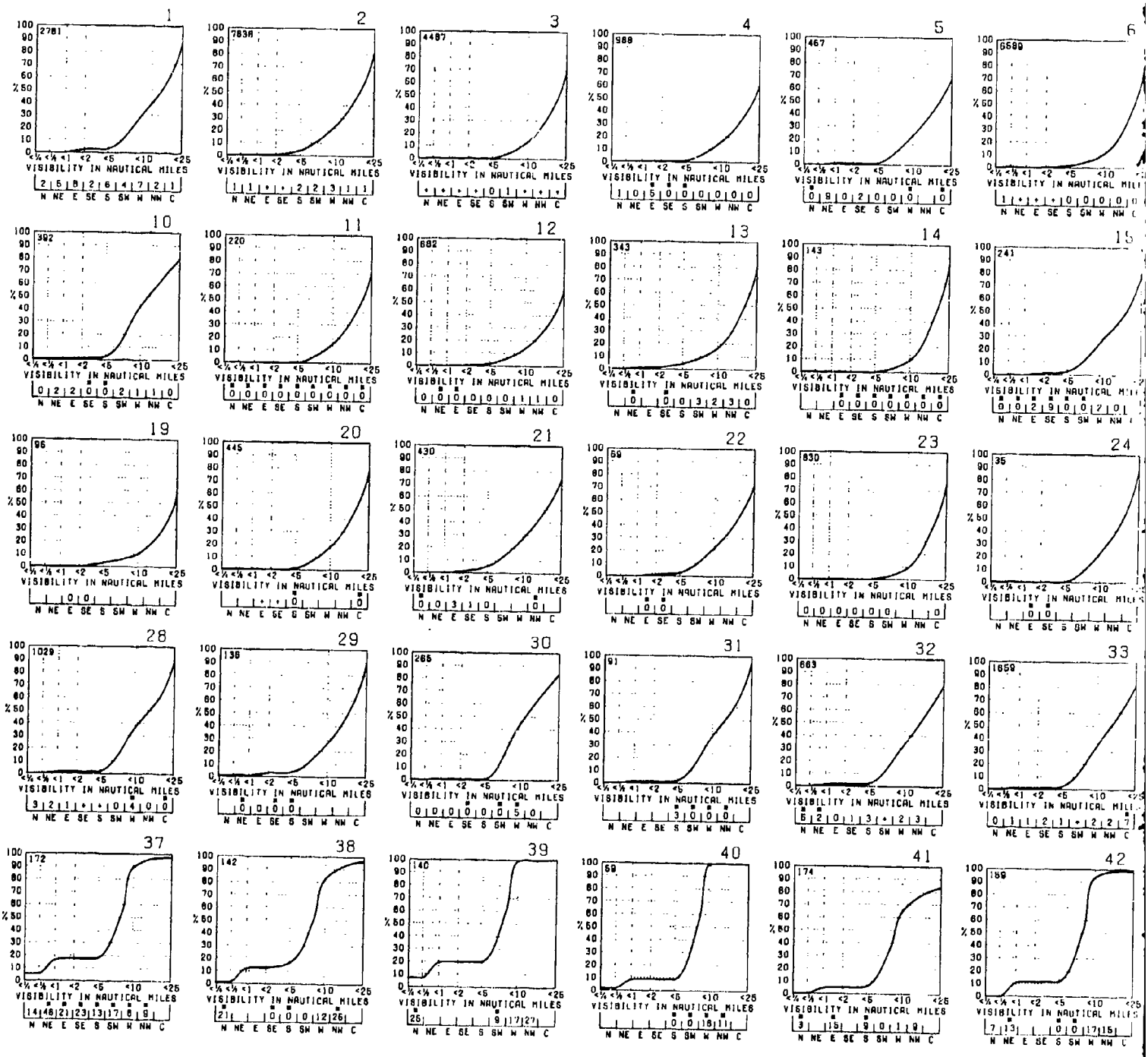
APRIL



VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
+ Indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C

VISIBILITY



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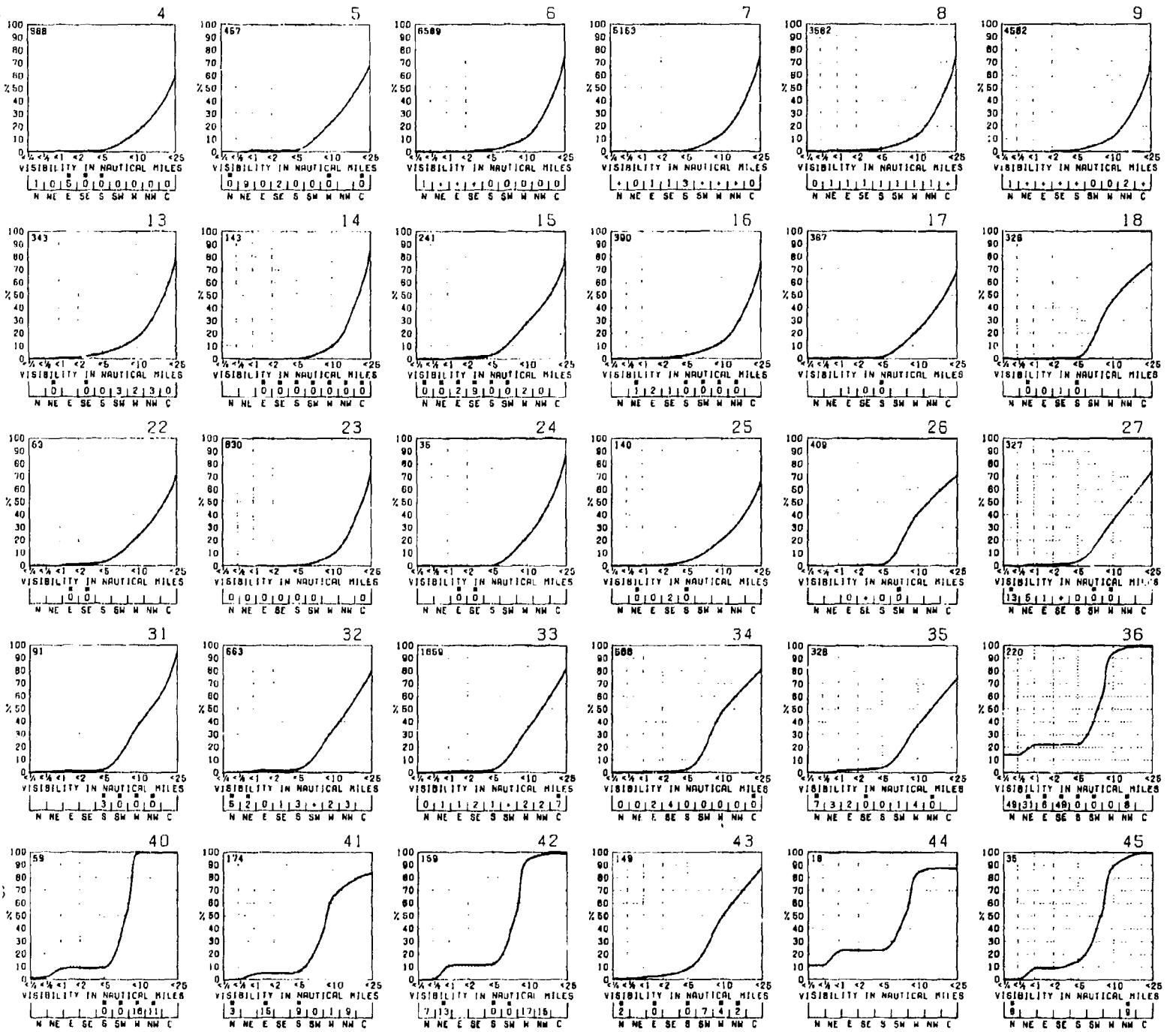
APRIL



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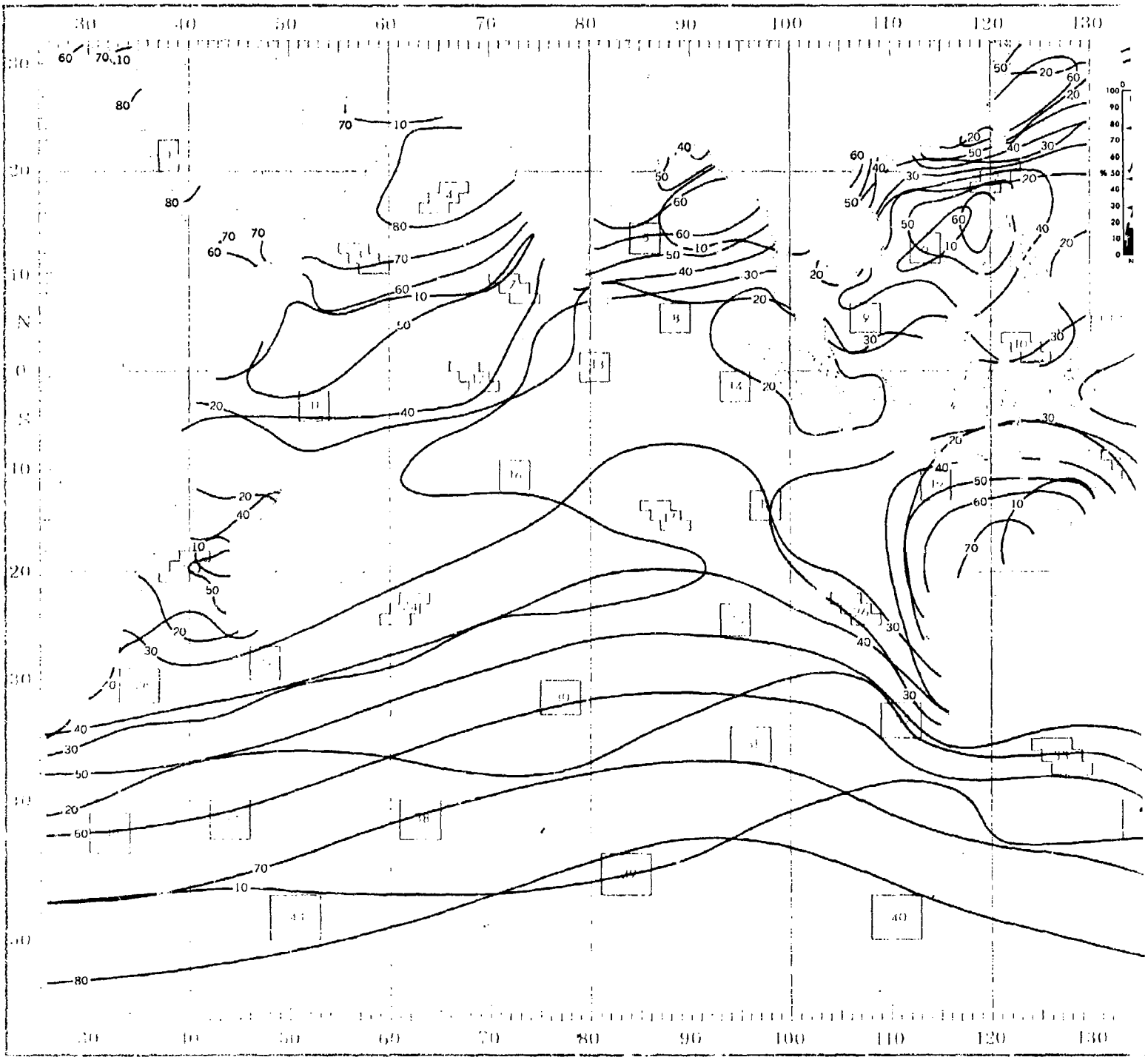
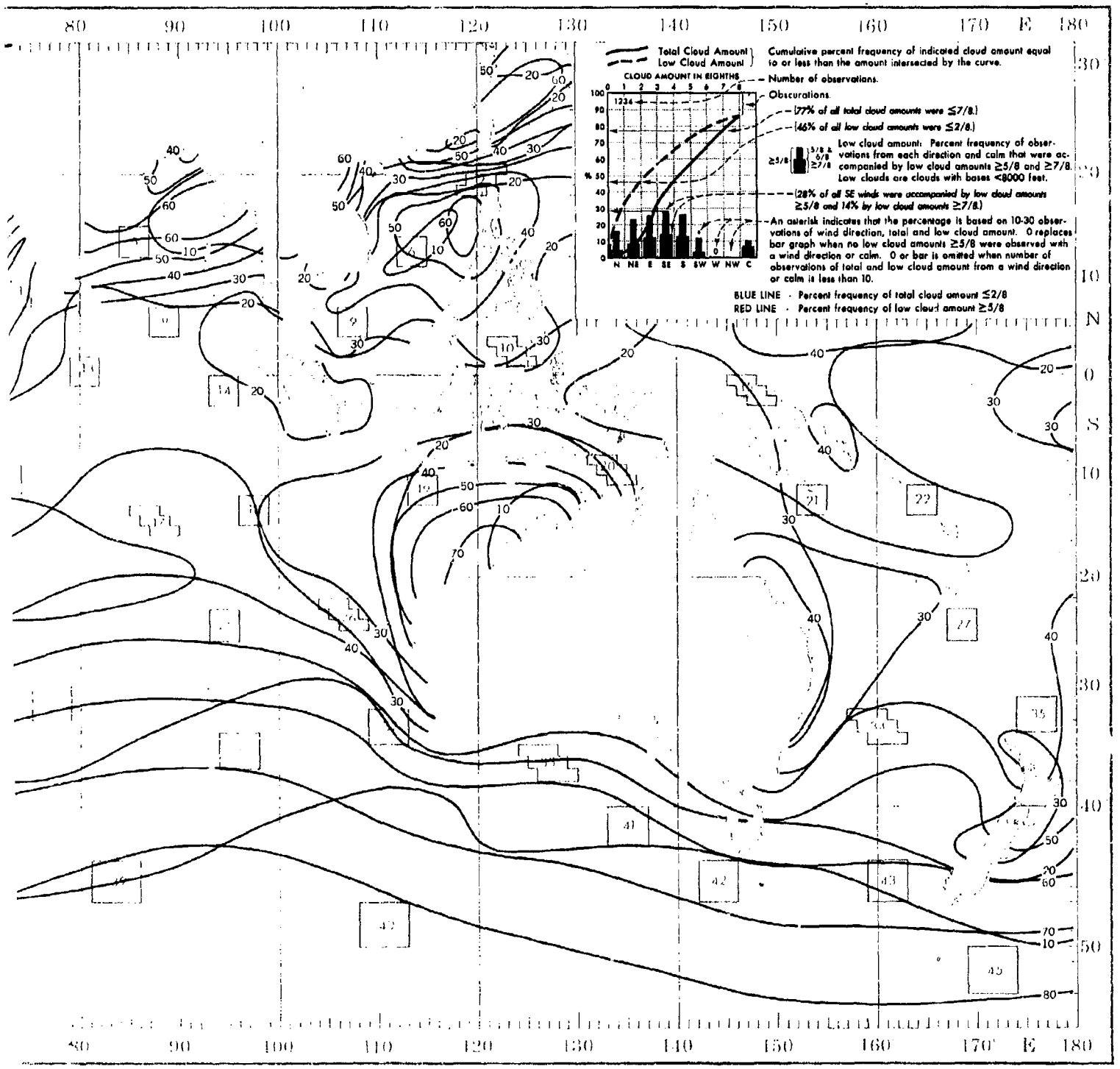
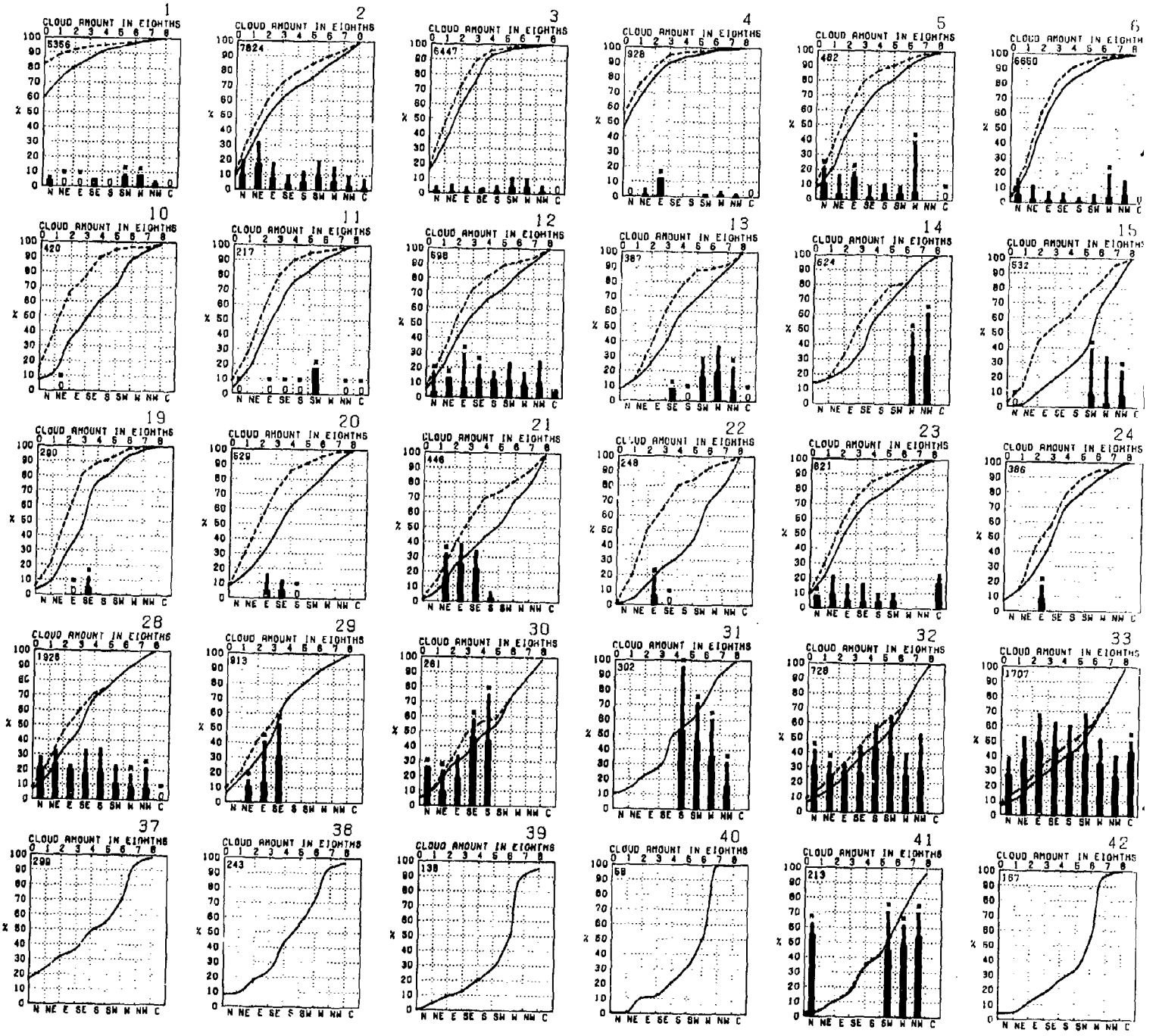
APRIL



CLOUD COVER


Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



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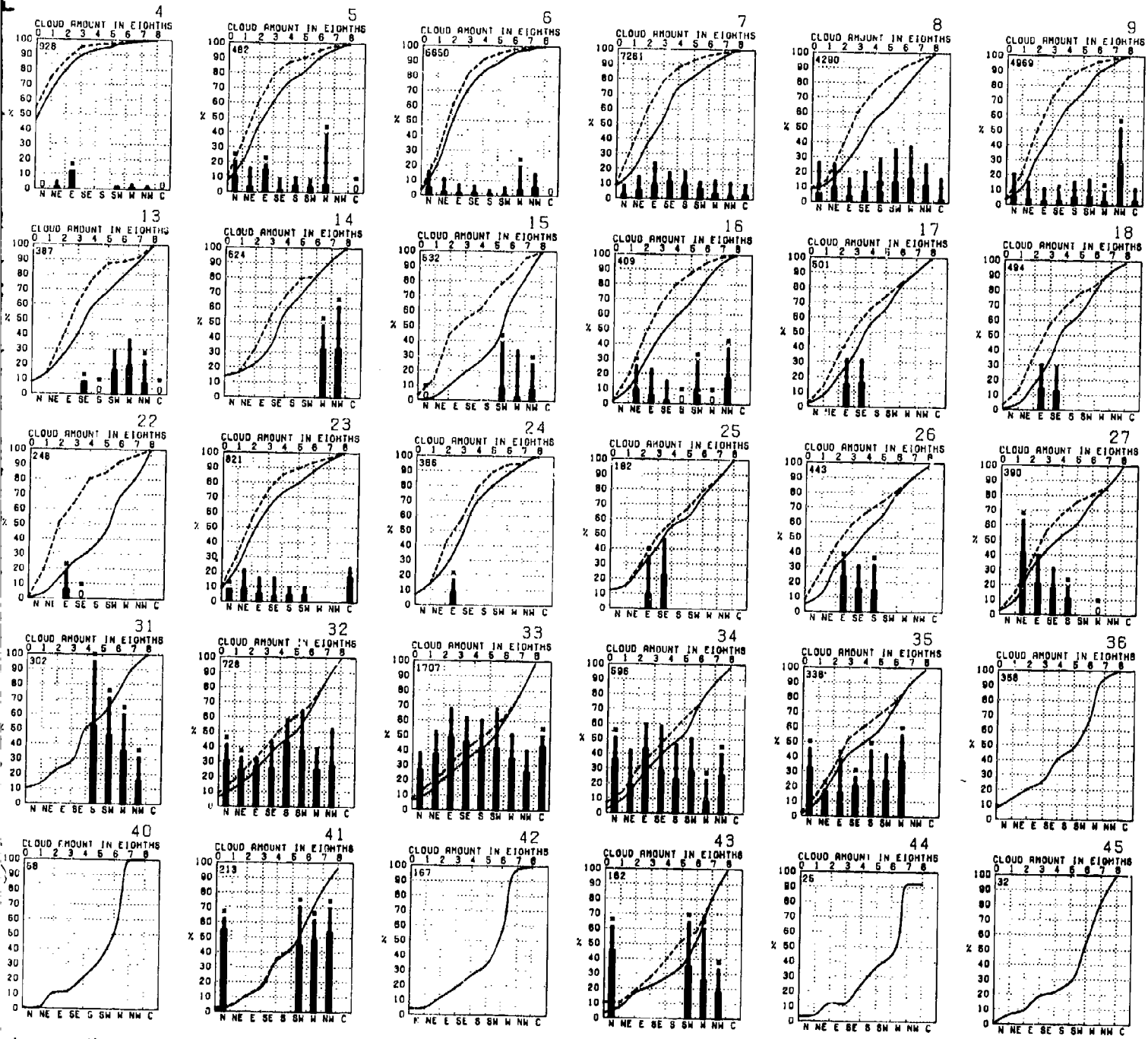
APRIL



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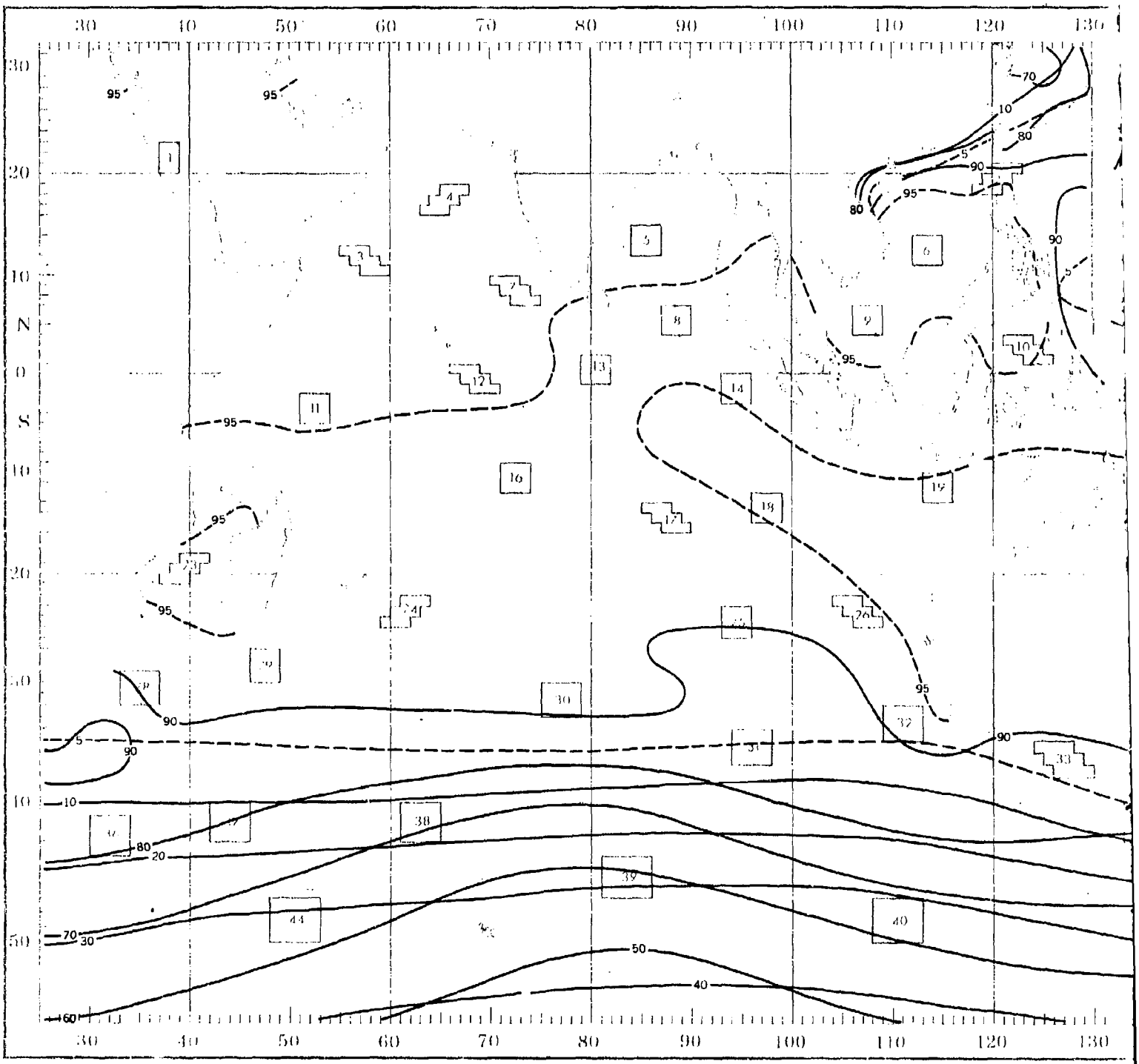
APRIL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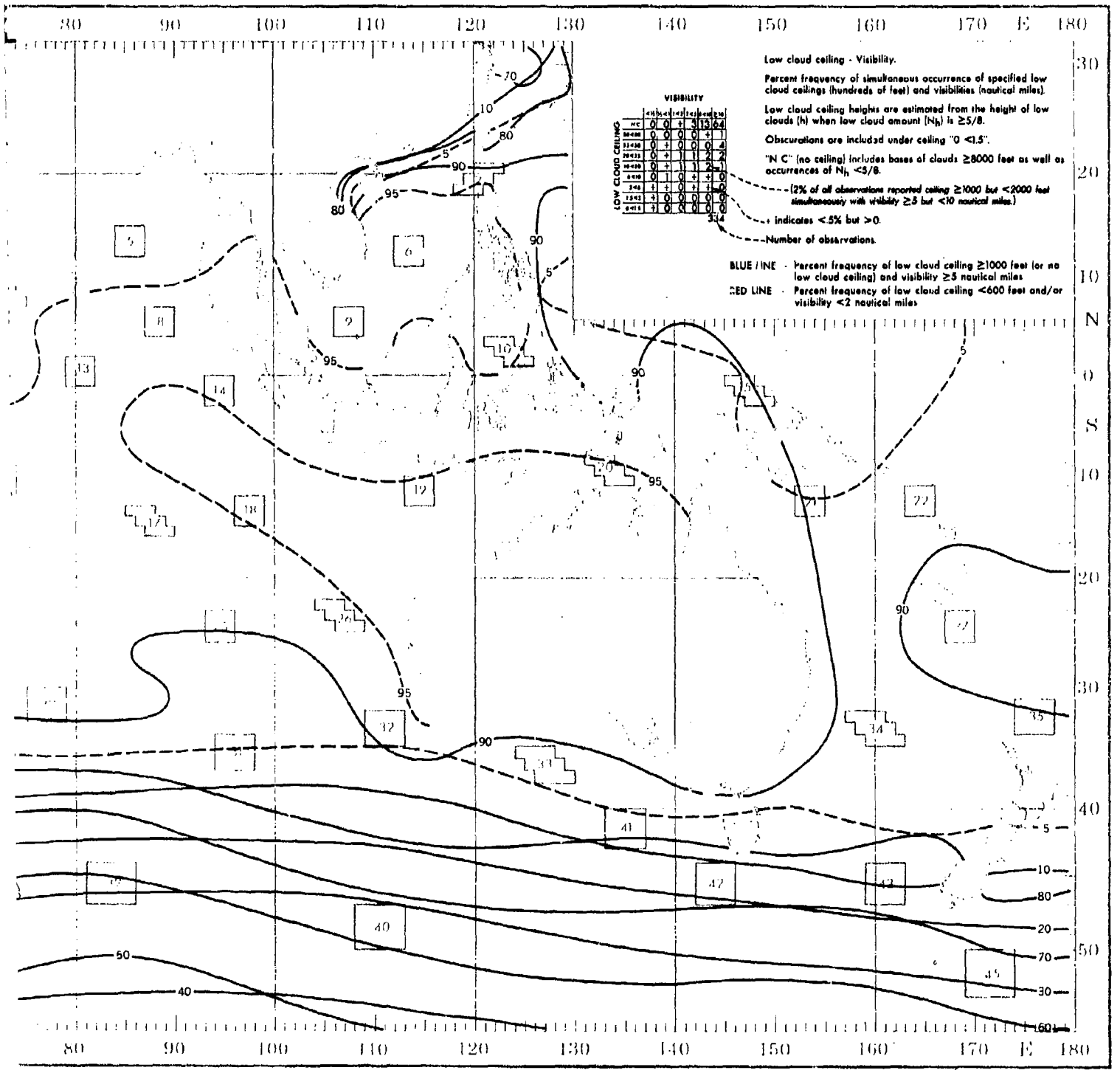
CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	1	9	87
50+80	0	0	0	0	+	+
30+50	0	0	0	0	+	+
20+30	0	0	0	0	+	1
10+20	0	0	0	0	+	1
5+10	0	0	0	0	+	+
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

1038

2

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	12	88
50+80	0	0	0	0	+	+
30+50	0	0	0	0	+	+
20+30	0	0	0	1	2	3
10+20	0	+	+	1	3	5
5+10	+	0	+	1	2	2
3+5	0	0	+	+	+	+
1.5+3	0	0	0	+	+	0
0+1.5	+	+	+	+	+	+

8453

3

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	94
50+80	0	0	0	+	0	+
30+50	0	0	0	0	+	+
20+30	0	0	0	0	0	1
10+20	0	0	0	+	+	1
5+10	0	0	0	0	0	+
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

1372

4

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	0	1	8	88
50+80	0	0	0	0	0	+
30+50	0	0	0	0	+	1
20+30	0	0	0	0	0	1
10+20	0	0	0	0	+	1
5+10	0	0	0	0	+	+
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

704

5

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	7	84
50+80	0	0	0	0	0	+
30+50	0	0	+	0	1	+
20+30	0	0	0	0	1	1
10+20	0	0	0	0	1	2
5+10	0	0	0	0	+	1
3+5	0	0	0	0	+	0
1.5+3	0	0	0	0	+	0
0+1.5	0	0	0	0	0	0

246

6

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	83
50+80	0	0	0	0	+	+
30+50	0	0	0	0	+	+
20+30	0	0	+	+	+	2
10+20	0	0	+	+	1	3
5+10	0	0	0	+	+	1
3+5	0	+	0	+	+	+
1.5+3	+	0	0	+	+	+
0+1.5	+	0	0	+	+	+

6417

10

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	88
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	2
20+30	0	0	0	0	0	4
10+20	0	0	0	4	0	2
5+10	0	0	0	0	0	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

51

11

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	8	84
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	1
20+30	0	0	0	0	0	0
10+20	0	0	0	0	1	4
5+10	0	0	0	0	0	3
3+5	0	0	0	0	0	2
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

103

12

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	79
50+80	0	0	0	0	0	+
30+50	0	0	0	0	0	2
20+30	0	0	0	0	+	3
10+20	0	0	0	+	1	8
5+10	0	0	0	+	1	3
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	0	+
0+1.5	0	0	0	0	+	0

430

13

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	74
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	1
20+30	0	0	0	0	1	4
10+20	0	0	0	0	3	8
5+10	0	0	0	1	2	5
3+5	0	1	1	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

170

14

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	8	56
50+80	0	0	0	0	2	2
30+50	0	0	0	0	0	4
20+30	0	0	0	0	4	8
10+20	0	0	0	0	8	8
5+10	0	0	0	0	0	8
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

53

15

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	69
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	0
20+30	0	0	0	1	1	3
10+20	0	0	0	0	1	14
5+10	0	0	1	0	0	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	1	0

72

19

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	0	88
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	0
20+30	0	0	0	0	2	2
10+20	0	0	0	0	0	4
5+10	0	0	0	0	0	2
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

80

20

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	87
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	1
20+30	0	0	0	0	1	2
10+20	0	0	0	0	1	3
5+10	0	1	0	0	0	2
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

174

21

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	7	84
50+80	0	0	0	0	0	+
30+50	0	0	0	0	0	0
20+30	0	0	0	0	+	1
10+20	0	0	0	0	4	9
5+10	+	0	0	+	4	4
3+5	0	0	1	2	+	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	1	+

245

22

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	78
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	0
20+30	0	0	0	0	0	0
10+20	0	0	0	0	4	2
5+10	0	0	0	0	0	4
3+5	0	0	0	0	2	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

49

23

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	84
50+80	0	0	0	0	0	1
30+50	0	0	0	0	0	+
20+30	0	0	0	0	0	4
10+20	0	0	0	0	1	6
5+10	0	0	0	+	+	1
3+5	0	0	0	0	1	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

635

24

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	17	81
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	0
20+30	0	0	0	0	0	0
10+20	0	0	0	0	6	6
5+10	0	0	0	0	6	0
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

18

28

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	71
50+80	0	0	0	0	+	1
30+50	0	0	0	+	0	1
20+30	0	0	+	+	1	3
10+20	0	0	0	+	2	10
5+10	0	0	0	+	2	4
3+5	0	+	0	0	0	1
1.5+3	0	0	0	0	0	+
0+1.5	0	0	0	+	0	0

474

29

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	80
50+80	0	0	0	0	0	1
30+50	0	0	0	0	0	1
20+30	0	0	0	0	0	9
10+20	0	0	0	0	4	10
5+10	0	0	0	0	4	4
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

78

30

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	89
50+80	0	0	0	0	0	7
30+50	0	0	0	0	0	5
20+30	0	0	0	0	0	9
10+20	0	0	0	0	3	8
5+10	0	0	0	0	1	10
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

112

31

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	30
50+80	0	0	0	0	0	2
30+50	0	0	0	2	2	8
20+30	0	0	0	0	2	21
10+20	0	0	0	0	2	18
5+10	0	0	0	0	8	8
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

66

32

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	49
50+80	0	0	0	0	0	2
30+50	0	0	0	0	1	5
20+30	0	0	0	+	2	13
10+20	0	0	0	0	3	15
5+10	0	0	0	+	2	5
3+5	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

395

33

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	3	43
50+80	0	0	0	0	0	2
30+50	0	0	0	0	+	6
20+30	0	0	+	+	2	12
10+20	0	0	0	+	3	19
5+10	+	0	0	+	1	6
3+5	0	+	0	+	1	1
1.5+3	0	0	0	0	+	0
0+1.5	0	0	0	0	0	0

941

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	33
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	8
20+30	0	0	0	0	7	7
10+20	0	0	0	1	4	22
5+10	0	0	0	0	3	10
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	1	0

73

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without req
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

APRIL

4

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	*	0	1	8	88
50+80	0	0	0	0	0	*
35+50	0	0	0	0	*	1
20+35	0	0	0	0	0	1
10+20	0	0	0	0	*	1
5+10	0	0	0	0	*	*
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

704

5

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	7	84
50+80	0	0	0	0	0	*
35+50	0	0	*	0	1	*
20+35	0	0	0	0	1	1
10+20	0	0	0	0	1	2
5+10	0	0	0	0	*	1
3+5	0	0	0	0	*	0
1-<3	0	0	0	0	*	0
0+1-5	0	0	0	0	0	0

246

6

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	83
50+80	0	0	0	0	*	*
35+50	0	0	0	0	*	*
20+35	0	0	*	*	*	2
10+20	0	0	*	*	1	3
5+10	0	0	0	0	*	1
3+5	0	*	0	*	*	*
1-<3	*	0	0	*	*	*
0+1-5	*	0	0	*	*	*

5417

7

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	*	3	86
50+80	0	0	0	0	*	1
35+50	0	0	0	0	*	2
20+35	0	0	0	*	*	2
10+20	0	0	0	*	*	4
5+10	0	0	*	0	*	1
3+5	0	0	0	*	*	*
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	*	0

1512

8

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	4	89
50+80	0	0	0	0	*	1
35+50	0	0	0	0	*	1
20+35	*	0	0	*	1	5
10+20	0	0	*	1	2	8
5+10	*	0	*	*	1	3
3+5	0	*	*	0	*	*
1-<3	*	0	*	*	*	*
0+1-5	0	0	0	*	0	0

1489

9

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	1	7	79
50+80	0	0	0	0	0	*
35+50	0	0	0	0	*	1
20+35	0	0	*	*	*	3
10+20	*	0	0	*	1	4
5+10	0	0	0	*	1	1
3+5	0	0	0	*	*	*
1-<3	0	0	0	*	*	*
0+1-5	0	*	0	0	0	*

2411

13

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	74
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	1
20+35	0	0	0	0	1	4
10+20	0	0	0	0	3	8
5+10	0	0	0	1	2	3
3+5	0	1	1	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

170

14

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	6	58
50+80	0	0	0	0	2	2
35+50	0	0	0	0	0	4
20+35	0	0	0	0	4	8
10+20	0	0	0	0	6	8
5+10	0	0	0	0	0	8
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

63

15

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	89
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	1	1	3
10+20	0	0	0	0	1	14
5+10	0	0	1	0	0	0
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	1	0

72

16

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	*	*	1	3	75
50+80	0	0	0	0	0	0
35+50	0	0	0	0	*	1
20+35	0	0	0	0	1	2
10+20	0	0	0	0	1	8
5+10	0	0	0	1	1	5
3+5	0	0	0	*	1	1
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

300

17

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	61
50+80	0	0	0	0	*	1
35+50	0	0	0	0	1	3
20+35	0	0	0	0	1	6
10+20	0	0	0	*	3	12
5+10	0	0	0	*	2	3
3+5	0	0	0	1	1	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

269

18

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	66
50+80	0	0	0	0	1	3
35+50	0	0	0	0	1	7
20+35	0	0	0	0	1	6
10+20	0	0	0	0	1	9
5+10	0	0	0	1	0	0
3+5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	1	0	0	0

136

22

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	78
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	0
10+20	0	0	0	0	4	2
5+10	0	0	0	0	0	4
3+5	0	0	0	0	2	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

49

23

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	84
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	*
20+35	0	0	0	0	0	4
10+20	0	0	0	0	1	6
5+10	0	0	0	*	*	1
3+5	0	0	0	0	1	*
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

636

24

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	17	81
50+80	0	0	0	0	0	8
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	0
10+20	0	0	0	0	6	5
5+10	0	0	0	0	6	0
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

18

25

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	67
50+80	0	0	0	0	1	2
35+50	0	0	0	1	0	8
20+35	0	0	0	0	0	7
10+20	0	0	0	0	3	14
5+10	0	0	0	1	1	6
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

103

26

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	83
50+80	0	0	0	0	0	3
35+50	0	0	1	0	1	8
20+35	0	0	0	1	0	9
10+20	0	0	0	0	1	8
5+10	0	0	0	1	1	2
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

178

27

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	85
50+80	0	0	0	0	0	2
35+50	0	0	0	0	0	2
20+35	0	0	0	0	0	5
10+20	0	0	0	0	1	13
5+10	0	0	0	1	2	2
3+5	0	0	0	2	1	1
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	1	0

188

31

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	30
50+80	0	0	0	0	0	2
35+50	0	0	0	2	2	6
20+35	0	0	0	0	2	21
10+20	0	0	0	0	2	16
5+10	0	0	0	0	0	8
3+5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

56

32

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	49
50+80	0	0	0	0	0	2
35+50	0	0	0	0	1	5
20+35	0	0	0	*	2	13
10+20	0	0	0	0	3	15
5+10	0	0	0	*	2	5
3+5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	*

395

33

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	3	43
50+80	0	0	0	0	0	2
35+50	0	0	0	0	*	8
20+35	0	0	*	*	2	12
10+20	0	0	0	*	3	19
5+10	*	0	0	*	1	8
3+5	0	*	0	*	1	1
1-<3	0	0	0	0	*	0
0+1-5	0	0	0	0	0	0

941

34

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	52
50+80	0	0	0	0	0	*
35+50	0	0	0	0	*	4
20+35	0	0	0	0	0	7
10+20	0	0	0	1	8	14
5+10	0	0	0	2	8	8
3+5	0	0	0	0	*	0
1-<3	0	0	0	0	*	0
0+1-5	0	0	0	*	0	0

266

35

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	1	0	1	59
50+80	0	0	0	0	0	2
35+50	0	0	0	0	0	4
20+35	0	0	0	0	0	3
10+20	0	0	1	0	2	9
5+10	0	0	0	2	2	13
3+5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

185

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	33
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	6
20+35	0	0	0	0	7	7
10+20	0	0	0	1	4	22
5+10	0	0	0	0	3	10
3+5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0+1-5	0	0	0	0	1	0

73

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	40
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	1	0	1
10+20	0	1	1	3	8	19
5+10	0	0	0	1	8	4
3+5	0	0	0	3	1	3
1-<3	0	0	0	0	0	0
0+1-5	0	0	1	0	0	0

88

44

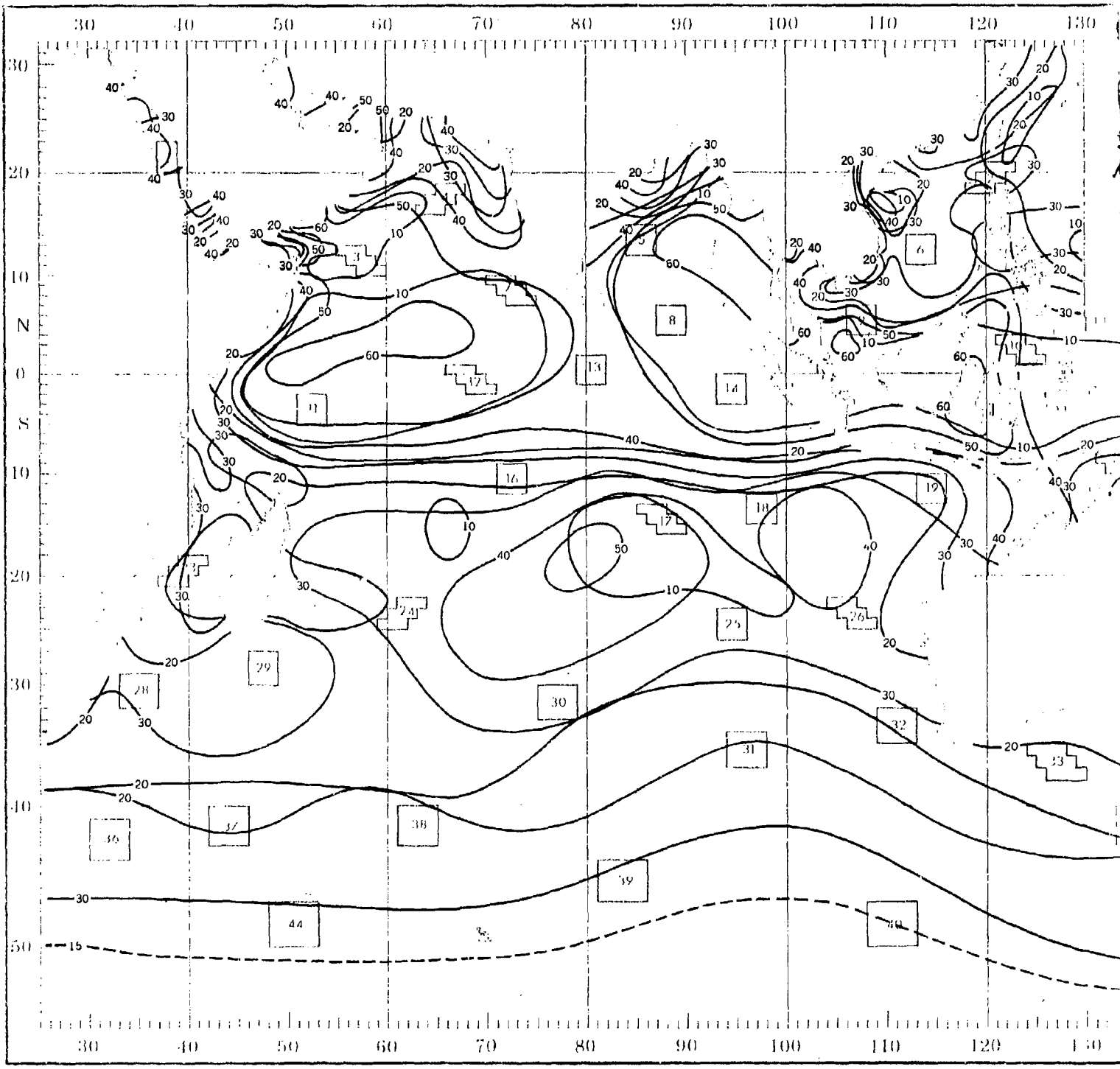
INSUFFICIENT DATA

45

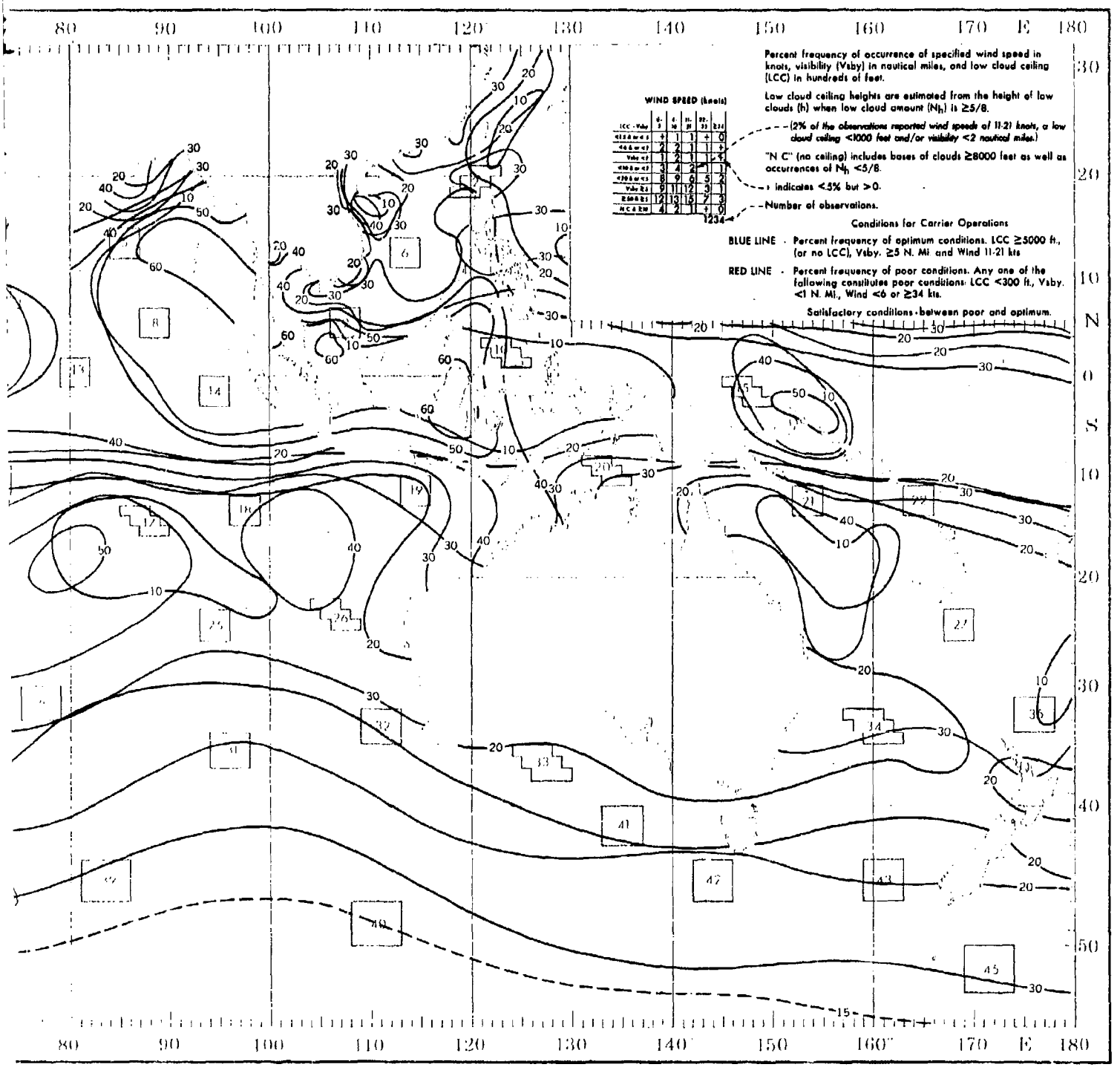
INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

APRIL



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	0	*	0	0
<5 & OR <2	*	0	*	0	0
VSBY <2	*	0	0	0	0
<10 & OR <2	*	*	*	0	0
<20 & OR <5	1	1	1	*	0
VSBY ≥5	17	38	40	4	0
≥50 & ≥5	16	37	39	4	0
NC & ≥10	15	34	36	3	0

1035

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	*	*	*	*
<5 & OR <2	*	*	1	*	*
VSBY <2	*	*	*	*	*
<10 & OR <2	*	1	3	1	*
<20 & OR <5	1	3	8	4	*
VSBY ≥5	8	37	41	9	*
≥50 & ≥5	8	34	32	5	*
NC & ≥10	7	29	27	4	*

6407

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	*	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	*	0	0	0
<20 & OR <5	*	1	*	*	0
VSBY ≥5	30	58	10	*	0
≥50 & ≥5	30	57	9	*	0
NC & ≥10	29	56	9	*	0

1299

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<5 & OR <2	0	0	*	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	-	*	*	0	0
<20 & OR <5	*	1	1	0	0
VSBY ≥5	18	65	16	*	0
≥50 & ≥5	17	63	15	*	0
NC & ≥10	16	59	14	*	0

690

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	*	0	0	0
<10 & OR <2	*	2	0	0	*
<20 & OR <5	1	4	0	1	*
VSBY ≥5	26	66	6	2	*
≥50 & ≥5	24	60	6	1	0
NC & ≥10	19	59	5	1	0

239

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	*	
<5 & OR <2	0	*	*	*	
VSBY <2	0	*	*	*	
<10 & OR <2	*	1	1	*	
<20 & OR <5	*	3	3	*	
VSBY ≥5	8	61	29	1	*
≥50 & ≥5	8	57	25	*	
NC & ≥10	7	53	23	*	

53

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	0	0	0
<20 & OR <5	2	6	2	0	0
VSBY ≥5	35	47	14	0	0
≥50 & ≥5	33	43	12	0	0
NC & ≥10	33	43	12	0	0

51

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	1	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	2	1	0	0
<20 & OR <5	2	8	1	0	0
VSBY ≥5	29	58	13	0	0
≥50 & ≥5	27	51	12	0	0
NC & ≥10	26	50	10	0	0

101

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<5 & OR <2	0	*	*	*	0
VSBY <2	0	*	0	0	0
<10 & OR <2	*	3	1	*	0
<20 & OR <5	2	7	4	*	0
VSBY ≥5	28	57	14	1	0
≥50 & ≥5	26	48	8	1	0
NC & ≥10	25	46	7	*	0

409

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	2	5	0	0
<20 & OR <5	0	9	10	0	0
VSBY ≥5	26	49	22	1	0
≥50 & ≥5	26	39	11	1	0
NC & ≥10	26	37	11	1	0

187

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	2	0
<20 & OR <5	2	13	2	2	0
VSBY ≥5	19	67	12	2	0
≥50 & ≥5	16	48	8	0	0
NC & ≥10	13	42	4	0	0

52

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	
<5 & OR <2	0	3	0	0	
VSBY <2	0	1	0	0	
<10 & OR <2	0	3	0	0	
<20 & OR <5	1	10	7	0	
VSBY ≥5	17	53	24	3	
≥50 & ≥5	16	43	19	0	
NC & ≥10	14	39	17	0	

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	0	0	0
<20 & OR <5	0	4	4	0	0
VSBY ≥5	5	55	35	2	0
≥50 & ≥5	4	51	31	2	0
NC & ≥10	4	51	31	2	0

49

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	2	1	0	0
<20 & OR <5	0	3	4	1	0
VSBY ≥5	4	51	43	1	0
≥50 & ≥5	4	46	38	0	0
NC & ≥10	4	45	37	0	0

174

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	1	*	1	0
<5 & OR <2	*	1	2	4	0
VSBY <2	*	0	*	1	0
<10 & OR <2	*	5	5	4	0
<20 & OR <5	1	7	14	4	0
VSBY ≥5	5	40	46	4	0
≥50 & ≥5	4	33	31	2	0
NC & ≥10	4	31	28	*	0

242

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	2	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	4	0	8	0	0
<20 & OR <5	4	0	16	0	0
VSBY ≥5	21	33	40	6	0
≥50 & ≥5	17	33	26	6	0
NC & ≥10	17	31	23	6	0

48

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	*	*	*	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	*	1	1	0
<20 & OR <5	1	3	4	1	0
VSBY ≥5	19	48	30	3	0
≥50 & ≥5	16	43	25	2	0
NC & ≥10	16	42	24	2	0

624

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	0	0	0
<20 & OR <5	0	11	0	6	0
VSBY ≥5	0	39	28	33	0
≥50 & ≥5	0	28	28	28	0
NC & ≥10	0	28	17	17	0

28

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	0	0
<5 & OR <2	*	1	1	1	0
VSBY <2	0	0	0	*	0
<10 & OR <2	1	2	3	2	1
<20 & OR <5	1	7	8	4	1
VSBY ≥5	7	37	43	10	2
≥50 & ≥5	5	30	32	8	1
NC & ≥10	5	29	32	4	1

473

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	4	1
<20 & OR <5	0	4	12	5	1
VSBY ≥5	4	32	54	9	1
≥50 & ≥5	3	24	37	4	0
NC & ≥10	3	22	32	4	0

78

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	5	4	0	0
<20 & OR <5	3	10	9	0	0
VSBY ≥5	7	38	49	8	1
≥50 & ≥5	5	23	32	6	1
NC & ≥10	4	17	27	4	1

111

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	9	3	2	0
<20 & OR <5	2	23	11	2	0
VSBY ≥5	5	55	29	11	0
≥50 & ≥5	0	18	9	6	0
NC & ≥10	0	17	9	5	0

68

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	0	0
<5 & OR <2	0	*	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	3	1
<20 & OR <5	*	8	13	6	1
VSBY ≥5	8	40	42	11	2
≥50 & ≥5	4	25	19	4	1
NC & ≥10	4	23	18	3	1

392

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	*
<5 & OR <2	0	1	1	*	*
VSBY <2	0	*	*	0	*
<10 & OR <2	*	4	6	1	1
<20 & OR <5	1	12	14	4	1
VSBY ≥5	4	37	44	11	2
≥50 & ≥5	2	17	22	6	1
NC & ≥10	2	16	20	5	*

929

37

INSUFFICIENT DATA

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	6	0
<5 & OR <2	0	0	6	6	0
VSBY <2	0	0	0	6	0
<10 & OR <2	0	0	6	6	0
<20 & OR <5	0	0	6	13	0
VSBY ≥5	0	25	38	25	0
≥50 & ≥5	0	13	13	6	0
NC & ≥10	0	13	13	6	0

16

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	7	3	0
<20 & OR <5	3	12	19	10	0
VSBY ≥5	3	19	56	19	0
≥50 & ≥5	0	4	28	4	0
NC & ≥10	0	4	25	4	0

73

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

ITY-WIND

APRIL

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	*	0	0
<5 & OR <2	0	0	*	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	*	*	*	0	0
<20 & OR <5	*	1	1	0	0
VSBY ≥5	18	65	16	*	0
≥50 & ≥5	17	63	15	*	0
NC & ≥10	16	59	14	*	0

690

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	*	0	0	0
<10 & OR <2	*	2	0	0	*
<20 & OR <5	1	4	0	1	*
VSBY ≥5	26	65	6	2	*
≥50 & ≥5	24	60	8	1	0
NC & ≥10	19	59	5	1	0

239

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	*	*	*	0
<5 & OR <2	0	*	*	*	*
VSBY <2	0	*	*	*	0
<10 & OR <2	*	1	1	*	*
<20 & OR <5	*	3	3	*	*
VSBY ≥5	8	61	29	1	0
≥50 & ≥5	8	57	25	*	0
NC & ≥10	7	53	23	*	0

5399

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	*	*	0	0
<5 & OR <2	0	*	*	0	0
VSBY <2	0	*	0	0	0
<10 & OR <2	*	1	*	0	0
<20 & OR <5	2	4	1	0	0
VSBY ≥5	27	62	10	0	0
≥50 & ≥5	25	65	9	0	0
NC & ≥10	24	54	8	0	0

1486

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	*	*	0	0
<5 & OR <2	*	1	1	0	0
VSBY <2	*	*	*	0	0
<10 & OR <2	1	4	2	*	0
<20 & OR <5	3	9	5	*	0
VSBY ≥5	33	52	12	1	0
≥50 & ≥5	28	40	8	*	0
NC & ≥10	27	37	5	*	0

1455

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	*	0	0
<5 & OR <2	*	*	*	0	0
VSBY <2	*	*	*	0	0
<10 & OR <2	*	2	1	0	0
<20 & OR <5	2	6	3	*	0
VSBY ≥5	24	58	16	*	0
≥50 & ≥5	22	51	13	*	0
NC & ≥10	20	47	11	*	0

2388

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	2	5	0	0
<20 & OR <5	0	9	10	0	0
VSBY ≥5	26	49	22	1	0
≥50 & ≥5	26	39	11	1	0
NC & ≥10	25	37	11	1	0

167

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	2	0
<20 & OR <5	2	13	9	2	0
VSBY ≥5	19	67	12	2	0
≥50 & ≥5	15	48	6	0	0
NC & ≥10	13	42	4	0	0

92

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<5 & OR <2	0	3	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	3	0	0	0
<20 & OR <5	1	10	7	0	0
VSBY ≥5	17	53	24	3	0
≥50 & ≥5	16	43	18	0	0
NC & ≥10	14	39	17	0	0

570

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	*	2	1	0	0
VSBY <2	0	*	*	0	0
<10 & OR <2	1	4	5	*	0
<20 & OR <5	1	10	7	1	0
VSBY ≥5	11	58	29	1	0
≥50 & ≥5	10	46	22	*	0
NC & ≥10	9	45	20	*	0

294

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	*	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	1	0
<20 & OR <5	0	3	15	3	0
VSBY ≥5	2	28	63	8	0
≥50 & ≥5	2	24	40	2	0
NC & ≥10	2	22	37	2	0

207

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	1	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	1	2	0	0
<20 & OR <5	0	3	8	3	0
VSBY ≥5	3	27	56	11	0
≥50 & ≥5	3	21	40	8	0
NC & ≥10	3	21	37	6	0

131

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	2	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	4	0	8	0	0
<20 & OR <5	4	0	15	0	0
VSBY ≥5	21	33	40	6	0
≥50 & ≥5	17	33	25	8	0
NC & ≥10	17	31	23	6	0

48

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	*	*	*	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	*	1	1	0
<20 & OR <5	1	3	4	1	0
VSBY ≥5	19	48	30	3	0
≥50 & ≥5	18	43	26	2	0
NC & ≥10	16	42	24	2	0

624

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	0	0	0
<20 & OR <5	0	11	0	6	0
VSBY ≥5	0	39	28	33	0
≥50 & ≥5	0	28	28	28	0
NC & ≥10	0	28	17	17	0

18

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	2	4	1	0
<20 & OR <5	1	7	18	1	0
VSBY ≥5	8	37	51	4	0
≥50 & ≥5	3	25	30	3	0
NC & ≥10	3	23	27	3	0

97

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	1	2	2	0
<20 & OR <5	0	4	8	2	0
VSBY ≥5	5	31	50	4	0
≥50 & ≥5	4	25	38	2	0
NC & ≥10	4	24	34	2	0

187

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<5 & OR <2	0	1	2	2	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	2	1
<20 & OR <5	1	5	11	5	1
VSBY ≥5	7	26	51	11	2
≥50 & ≥5	6	18	37	7	1
NC & ≥10	5	18	36	7	1

188

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	9	3	2	0
<20 & OR <5	2	23	11	2	0
VSBY ≥5	5	55	29	11	0
≥50 & ≥5	0	18	9	6	0
NC & ≥10	0	17	9	5	0

68

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	*	0	0	0
<5 & OR <2	0	*	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	3	1
<20 & OR <5	*	8	13	8	1
VSBY ≥5	6	40	42	11	2
≥50 & ≥5	4	25	19	4	1
NC & ≥10	4	23	18	3	1

392

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	*
<5 & OR <2	0	1	1	*	*
VSBY <2	0	*	*	0	*
<10 & OR <2	*	4	5	1	1
<20 & OR <5	1	12	14	4	1
VSBY ≥5	4	37	44	11	2
≥50 & ≥5	2	17	22	6	1
NC & ≥10	2	16	20	5	*

929

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	*	0	0
<5 & OR <2	0	0	*	0	1
VSBY <2	0	0	0	0	0
<10 & OR <2	*	5	4	3	2
<20 & OR <5	1	10	18	5	4
VSBY ≥5	8	32	41	12	4
≥50 & ≥5	6	18	23	6	*
NC & ≥10	6	18	22	6	*

262

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	1
VSBY <2	0	0	0	0	1
<10 & OR <2	0	4	12	1	1
<20 & OR <5	0	8	17	4	1
VSBY ≥5	1	31	55	10	1
≥50 & ≥5	1	21	34	6	0
NC & ≥10	1	20	34	6	0

163

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	7	3	0
<20 & OR <5	3	12	18	10	0
VSBY ≥5	3	19	56	18	0
≥50 & ≥5	0	4	26	4	0
NC & ≥10	0	4	25	4	0

73

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.8 & OR <.5	0	1	0	0	0
<5 & OR <2	0	3	4	3	1
VSBY <2	0	3	1	0	0
<10 & OR <2	0	4	9	6	4
<20 & OR <5	0	10	25	12	9
VSBY ≥5	1	10	34	29	12
≥50 & ≥5	1	4	15	16	8
NC & ≥10	1	4	15	13	8

88

44

INSUFFICIENT DATA

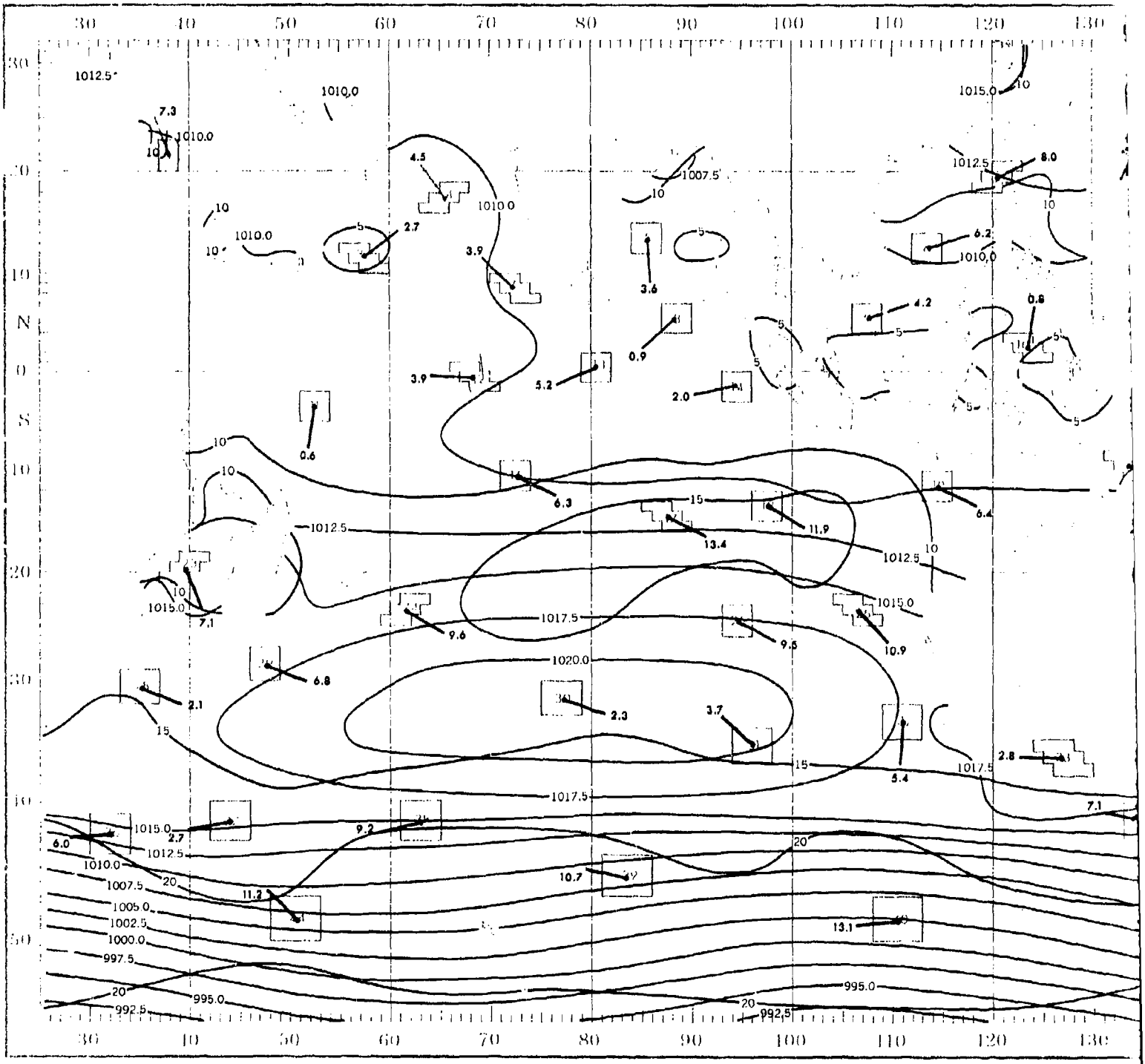
45

INSUFFICIENT DATA

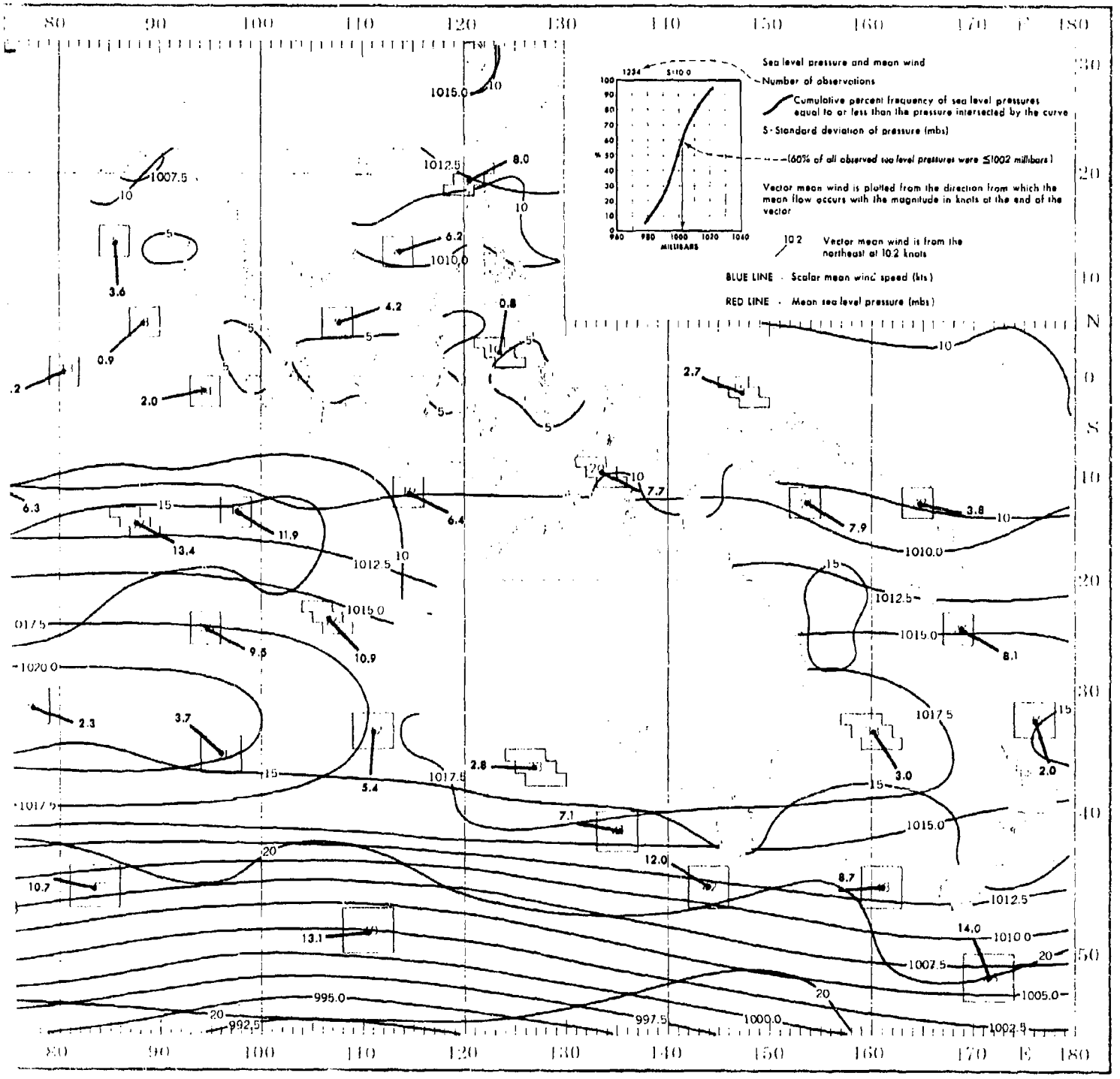
ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

APRIL

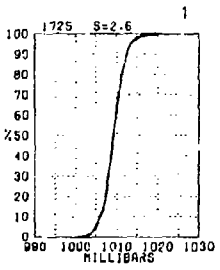
SEA LEVEL PRE

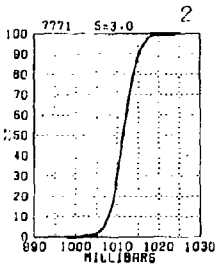


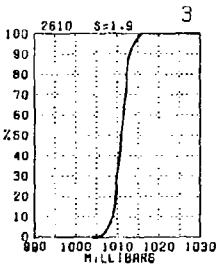
SEA LEVEL PRESSURE AND MEAN WIND

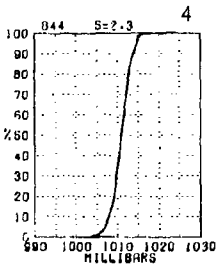


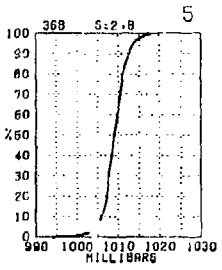
SEA LEVEL PRESSURE

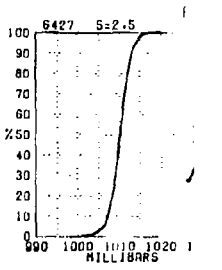


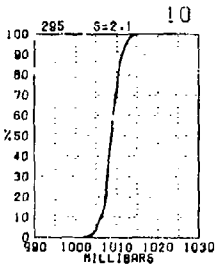


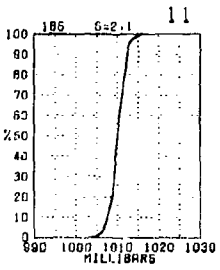


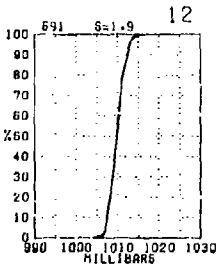


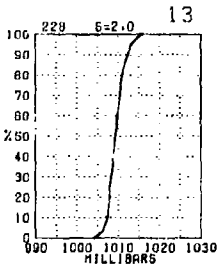


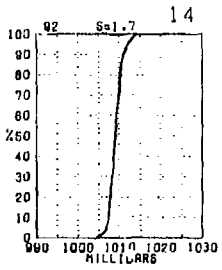


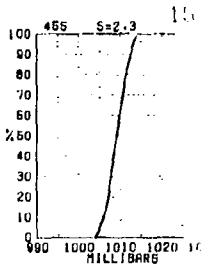


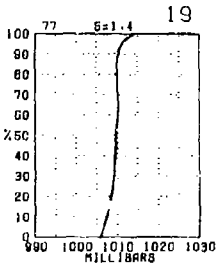


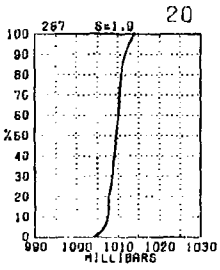


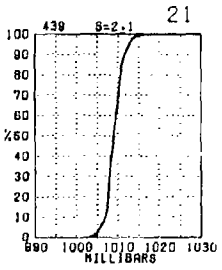


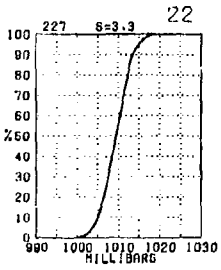


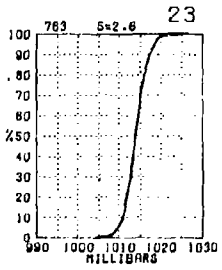


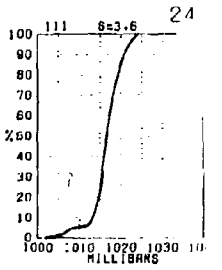


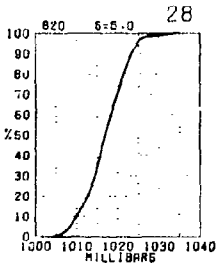


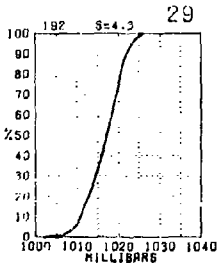


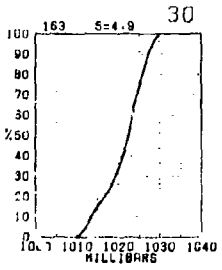


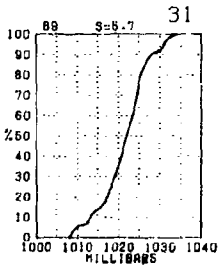


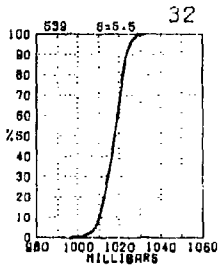


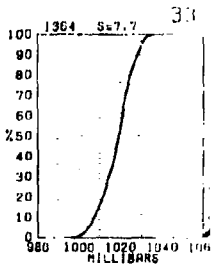


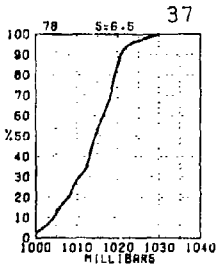


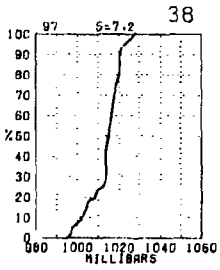


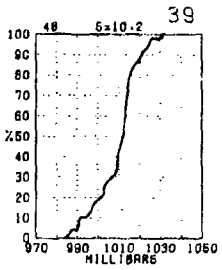






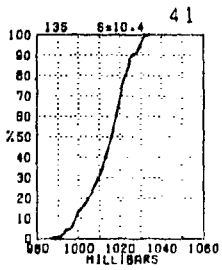


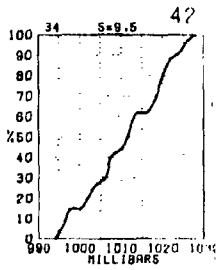




40

INSUFFICIENT DATA

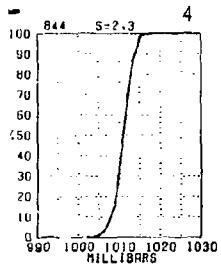


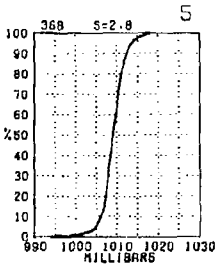


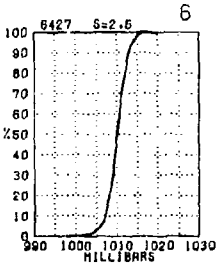
Graphs represent the objective compilation of available data for specified areas without

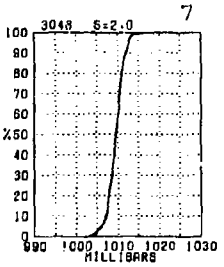
The isopleth analyses (opposite page) are based on all available data subjectively adjust

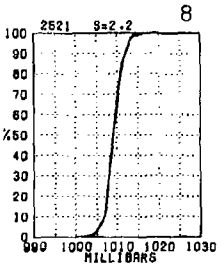
APRIL

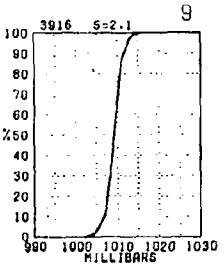


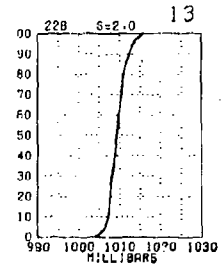


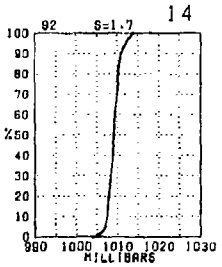


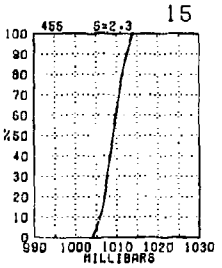


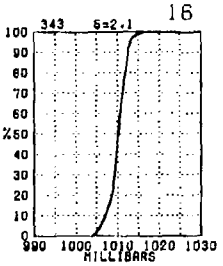


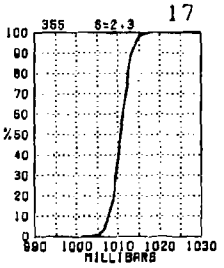


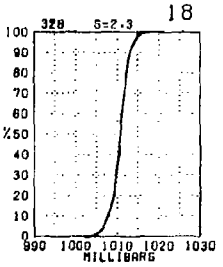


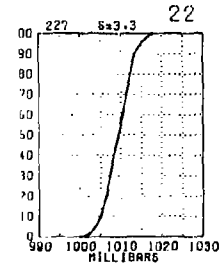


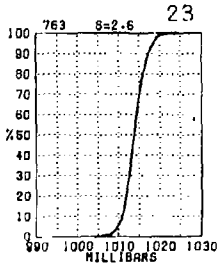


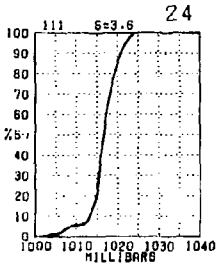


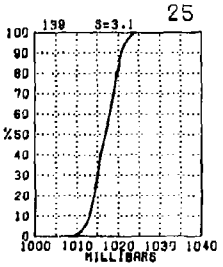


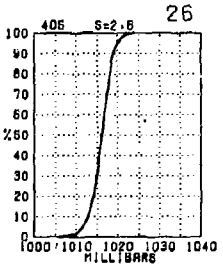


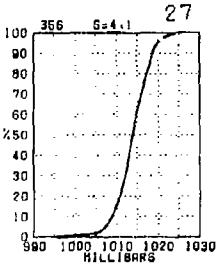


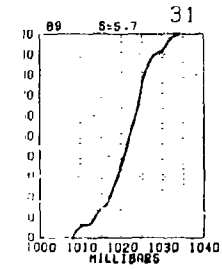


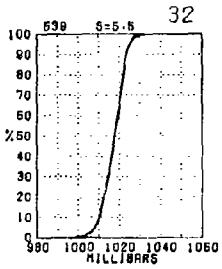


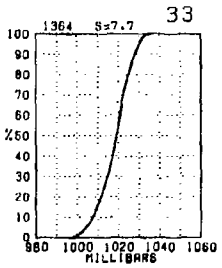


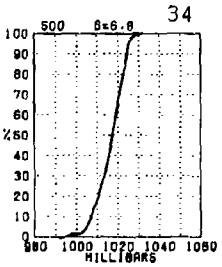


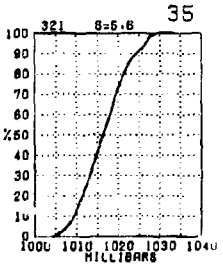


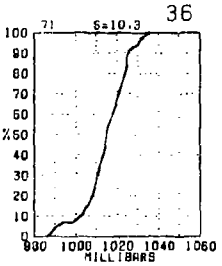












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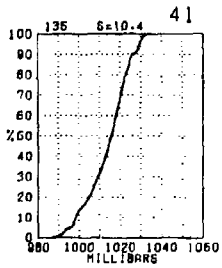
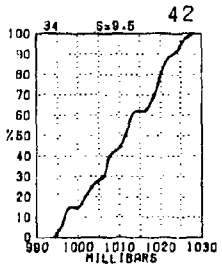
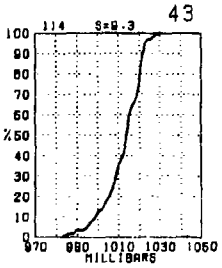
NSUFFICIENT DATA







44

INSUFFICIENT DATA

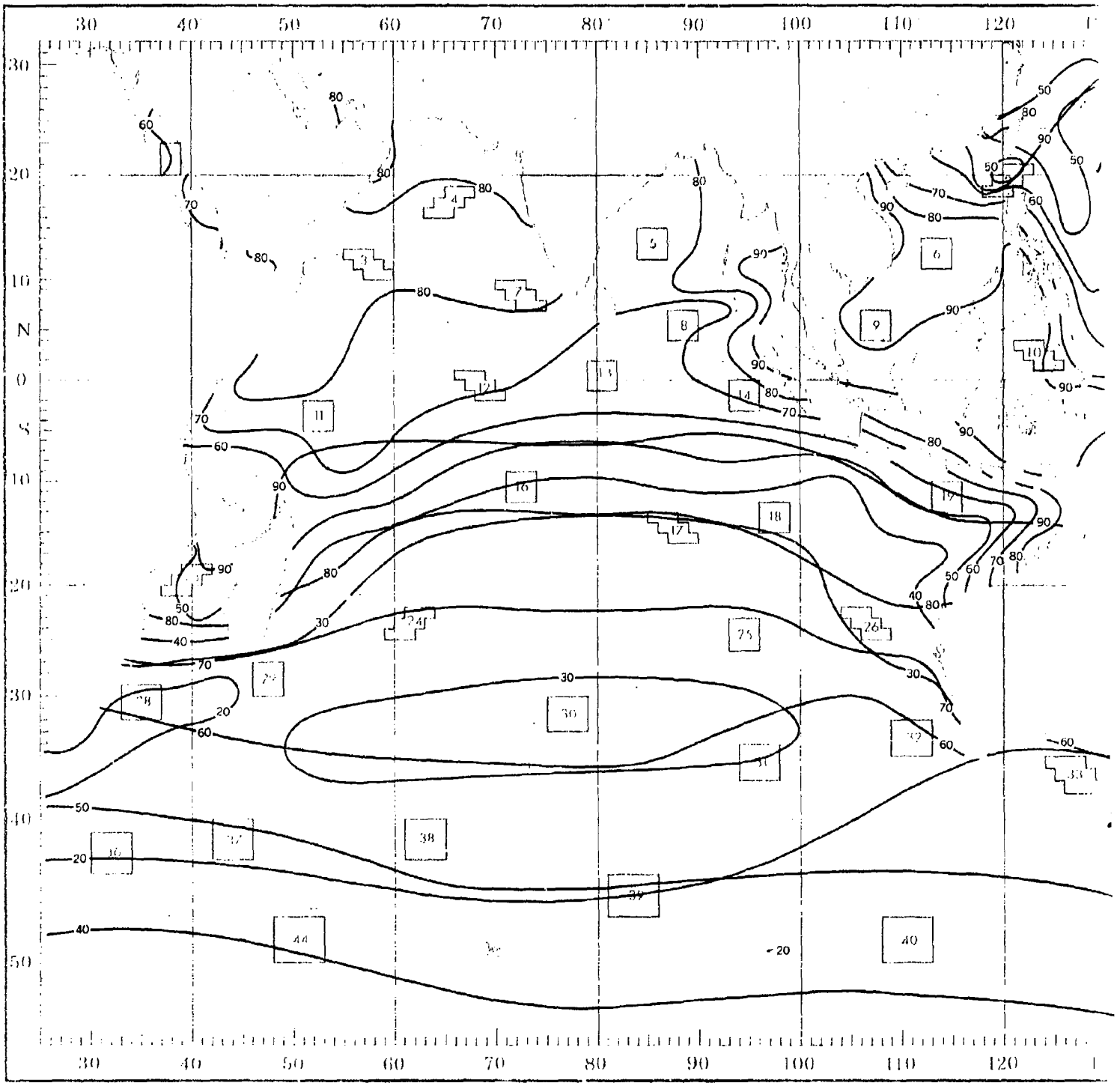
45

INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

APRIL

WAVE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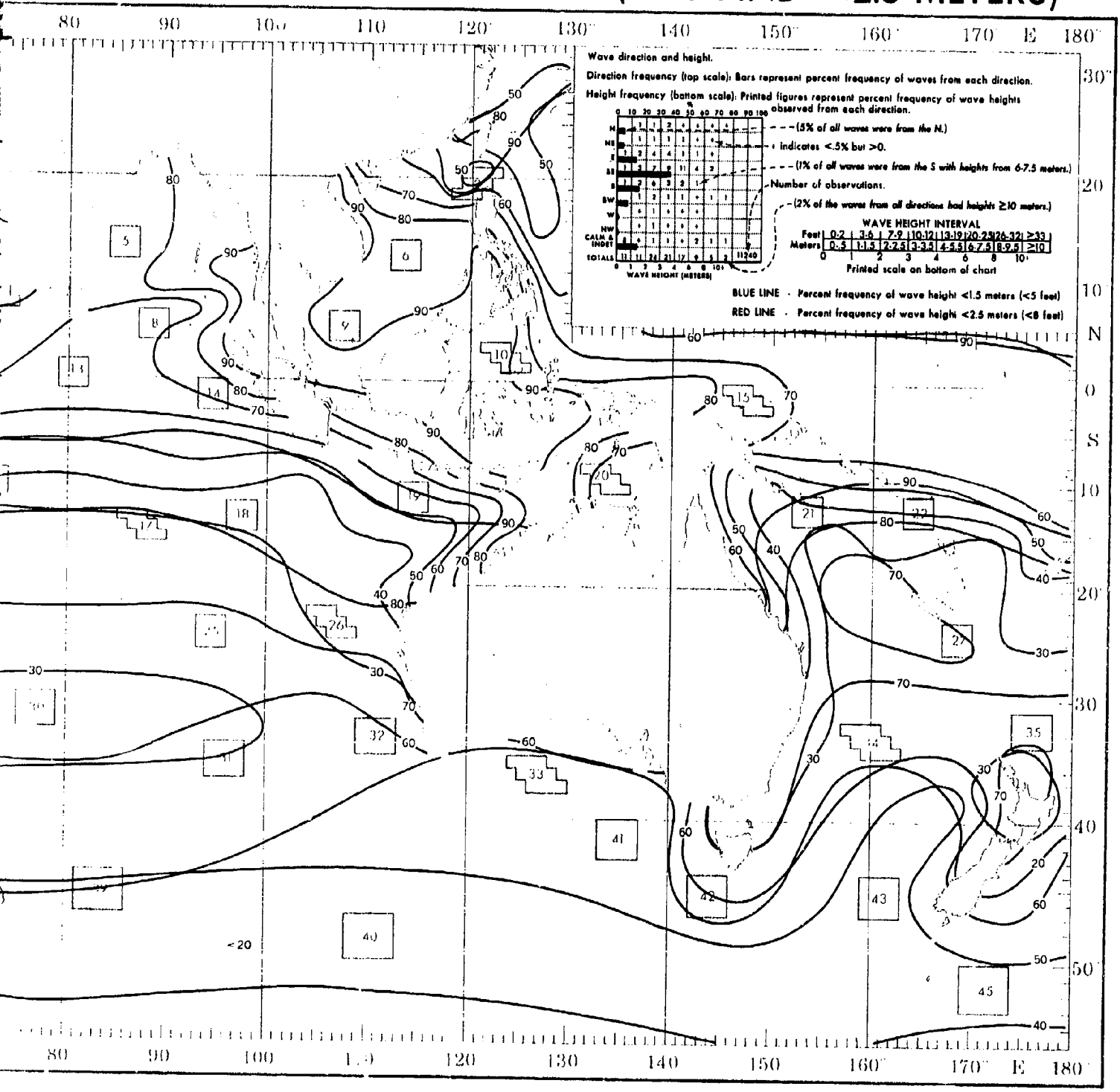
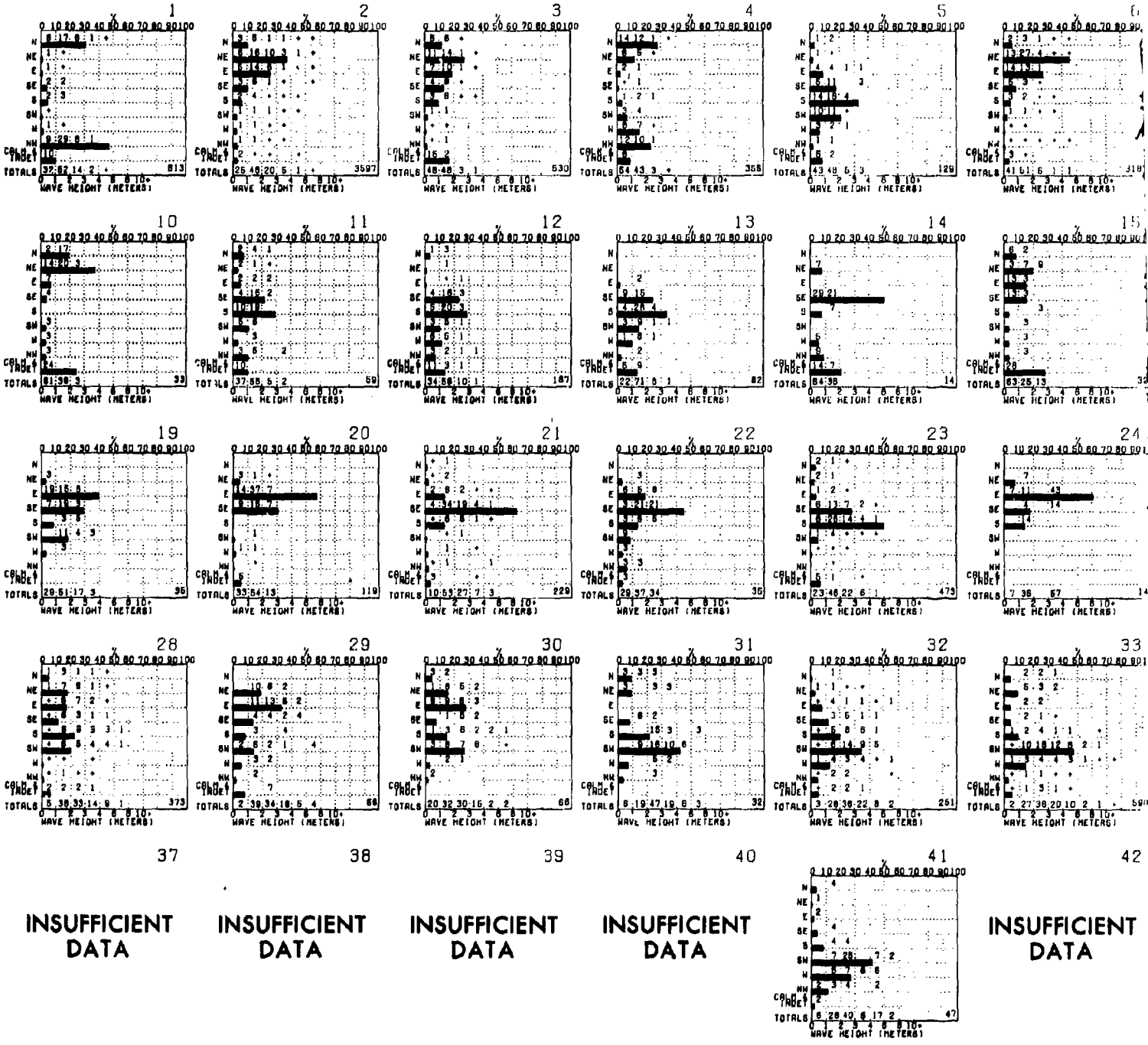
WAVES (<1.5 AND <2.5 METERS)



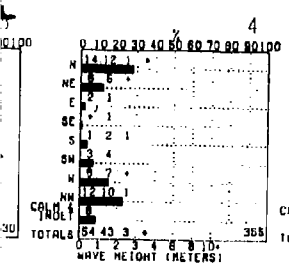
WAVE DIRECTION AND HEIGHT

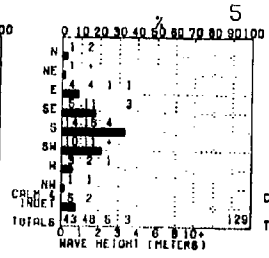


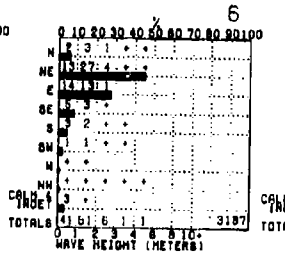
Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

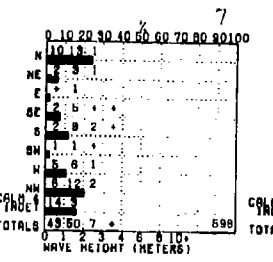
EIGHT

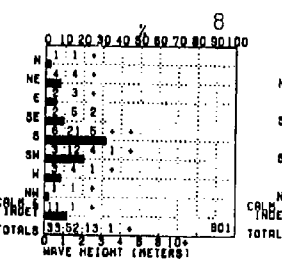
APRIL

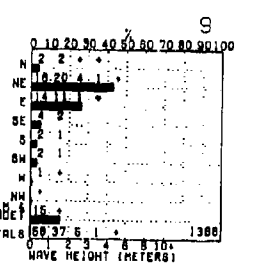


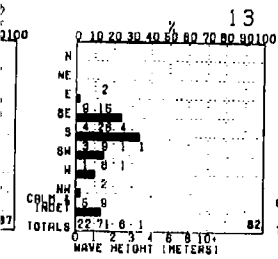


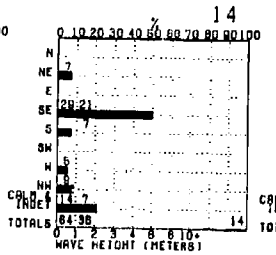


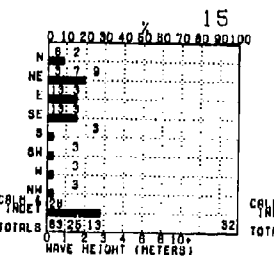


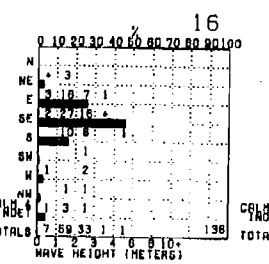


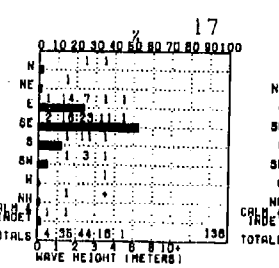


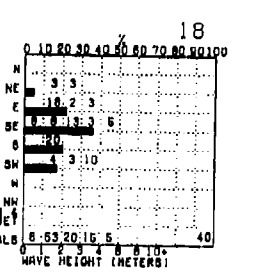


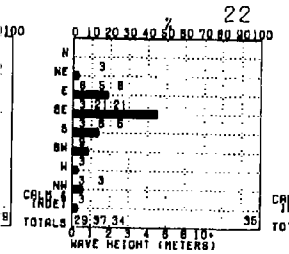


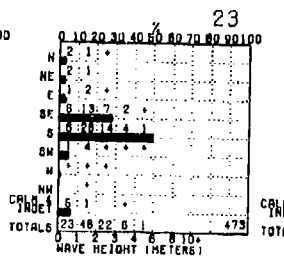


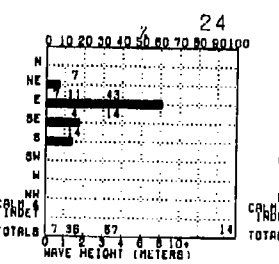


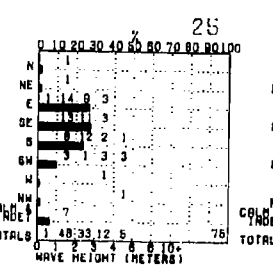


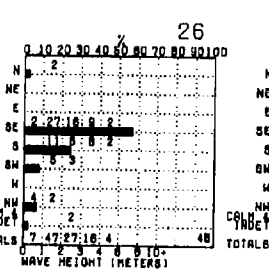


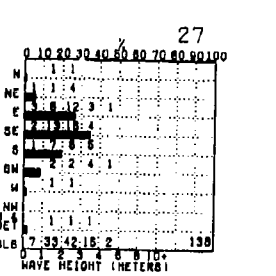


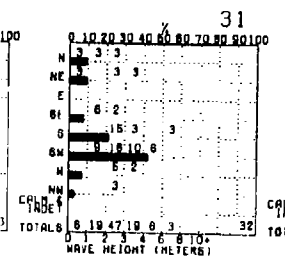


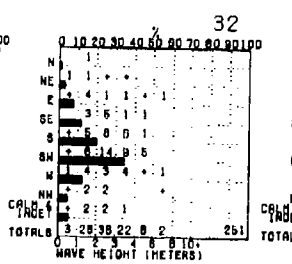


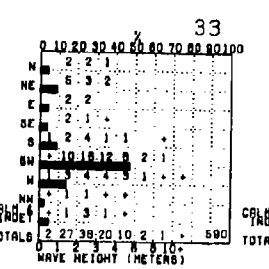


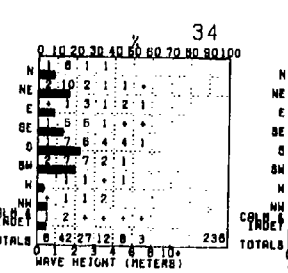


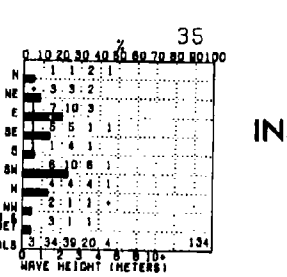










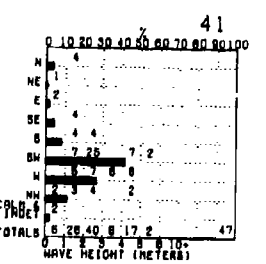


36

INSUFFICIENT DATA

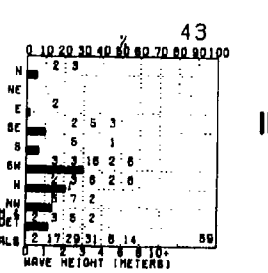
40

INSUFFICIENT DATA



42

INSUFFICIENT DATA



44

INSUFFICIENT DATA

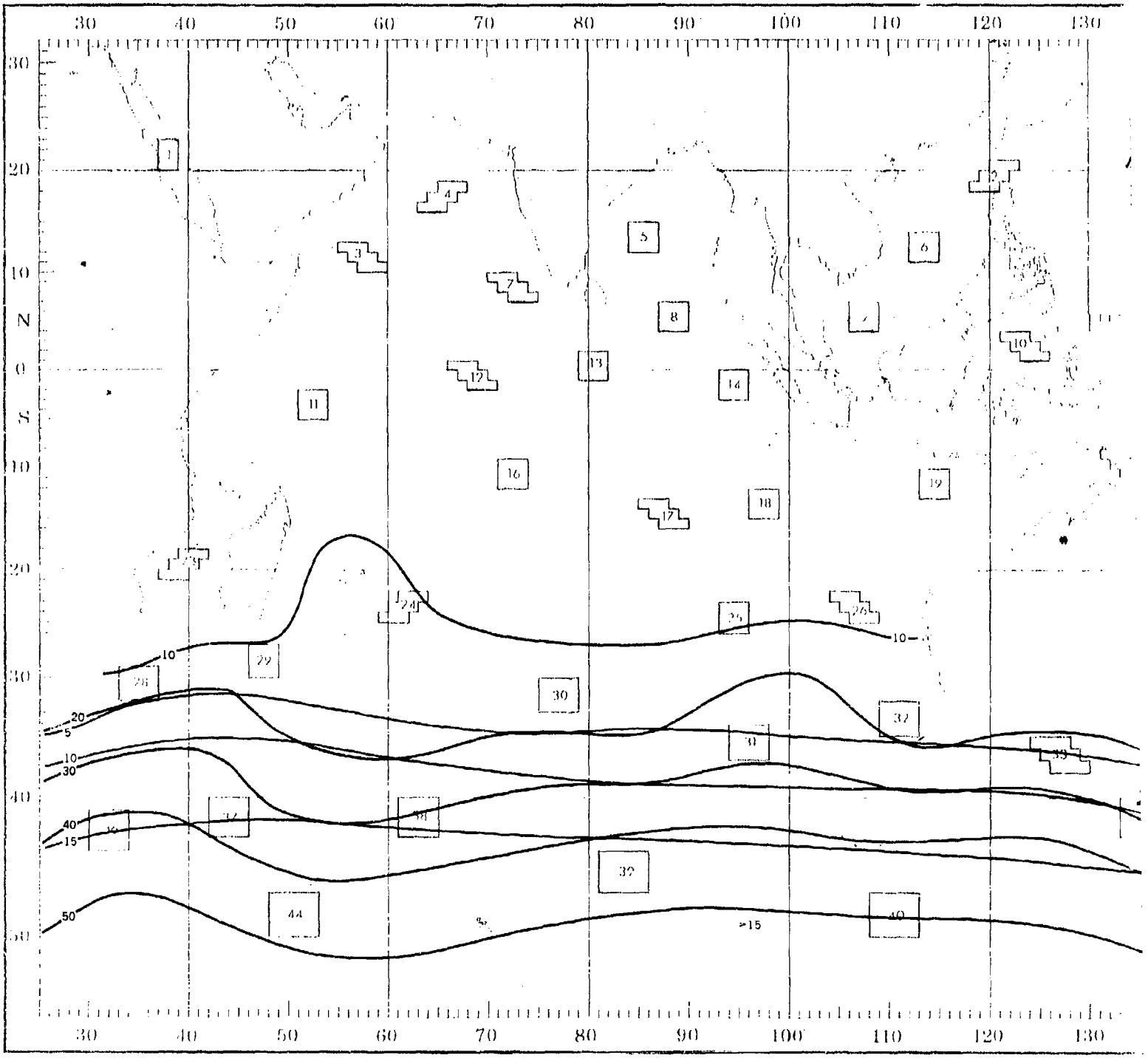
45

INSUFFICIENT DATA

bjective compilation of available data for specified areas without regard to suspected biases.
opposite page) are based on all available data subjectively adjusted where bias was evident.

APRIL

WAVES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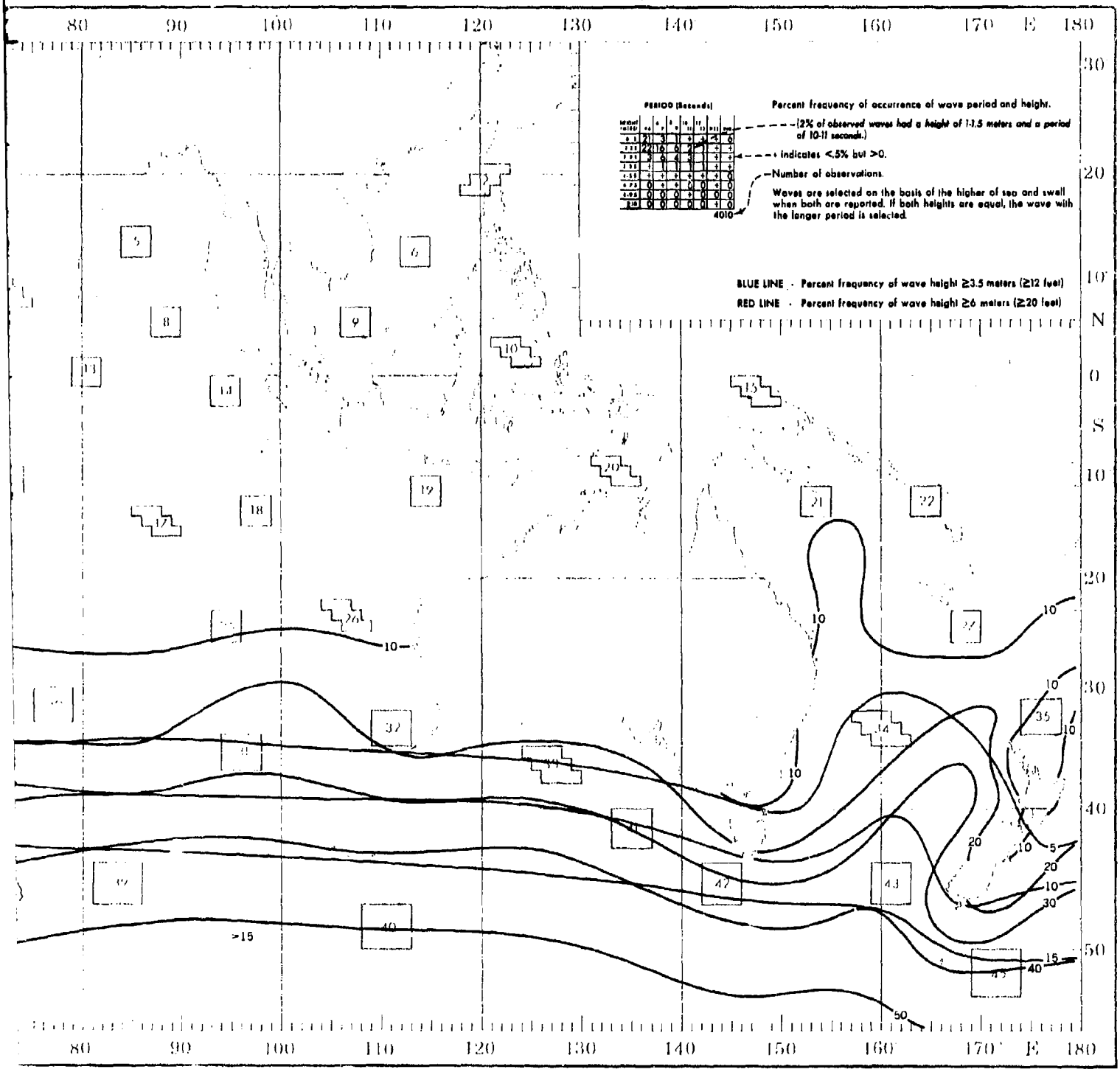
>15

WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	24	1	+	0	0	0	12
1-1.5	28	13	2	+	0	0	4
2-2.5	3	6	2	1	0	0	1
3-3.5	+	1	+	+	0	0	0
4-4.5	0	+	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

888

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	22	2	+	+	0	0	9
1-1.5	22	19	4	1	1	+	1
2-2.5	3	7	7	2	+	+	+
3-3.5	+	1	2	1	+	+	+
4-5.5	+	+	+	+	+	0	+
6-7.5	0	+	+	0	+	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3744

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	30	3	1	1	0	0	19
1-1.5	16	12	5	4	2	+	3
2-2.5	+	+	1	+	+	0	0
3-3.5	0	+	0	0	+	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

607

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	40	5	+	1	0	0	13
1-1.5	26	8	3	1	+	0	+
2-2.5	1	1	+	0	+	0	0
3-3.5	+	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

405

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	30	4	1	1	0	0	14
1-1.5	22	7	6	0	1	0	5
2-2.5	0	0	2	1	1	0	1
3-3.5	0	0	2	1	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

147

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	38	3	1	+	0	0	
1-1.5	28	16	4	+	+	+	
2-2.5	1	2	2	+	+	+	
3-3.5	+	+	+	+	0	0	
4-4.5	+	+	+	+	0	0	
5-7.5	0	0	0	0	0	0	
8-9.5	0	0	0	0	0	0	
>10	0	0	0	0	0	0	

346

10

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	43	3	0	3	0	0	20
1-1.5	13	15	0	0	0	0	3
2-2.5	0	3	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

11

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	23	6	2	2	0	0	9
1-1.5	27	19	9	2	2	0	0
2-2.5	2	2	0	0	2	0	
3-3.5	0	2	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

84

12

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	18	5	3	1	0	0	11
1-1.5	12	13	12	8	1	1	7
2-2.5	1	1	3	1	1	0	1
3-3.5	1	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

201

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	10	5	1	1	0	0	7
1-1.5	24	29	4	1	4	0	8
2-2.5	1	0	2	1	1	0	0
3-3.5	0	0	0	0	0	0	1
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

84

19

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	28	0	0	0	0	0	0
1-1.5	23	6	14	0	6	0	3
2-2.5	6	6	3	0	3	0	0
3-3.5	0	0	0	0	3	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

96

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	29	1	0	0	0	0	5
1-1.5	20	28	4	0	0	0	1
2-2.5	6	6	2	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

122

21

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	8	+	0	0	0	0	4
1-1.5	20	20	9	2	1	+	+
2-2.5	3	11	8	4	0	0	0
3-3.5	0	2	3	1	0	0	+
4-4.5	0	1	1	+	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

234

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	28	0	0	0	0	0	3
1-1.5	17	14	6	0	0	0	0
2-2.5	3	23	6	0	3	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

96

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	17	2	1	+	0	0	6
1-1.5	21	14	5	2	1	+	3
2-2.5	2	8	7	2	2	1	1
3-3.5	+	1	2	1	1	+	+
4-4.5	+	+	+	0	0	+	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

491

24

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	7	0	0	0	0	0	
1-1.5	21	14	0	0	0	0	
2-2.5	0	0	0	0	0	0	
3-3.5	0	43	0	0	14	0	
4-4.5	0	0	0	0	0	0	
5-7.5	0	0	0	0	0	0	
8-9.5	0	0	0	0	0	0	
>10	0	0	0	0	0	0	

14

28

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	4	0	0	0	0	0	2
1-1.5	11	10	6	1	2	+	6
2-2.5	6	15	7	1	1	0	3
3-3.5	1	5	3	3	1	0	1
4-5.5	0	2	3	2	1	1	1
6-7.5	0	0	+	0	1	1	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

375

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	0	0	0	2	0	0	0
1-1.5	11	11	7	0	2	2	7
2-2.5	7	7	8	2	0	0	8
3-3.5	2	4	4	6	0	0	2
4-5.5	0	0	4	0	0	2	0
6-7.5	0	0	4	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

55

30

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	9	2	0	9	0	0	0
1-1.5	3	17	8	3	0	3	0
2-2.5	8	15	8	3	0	0	2
3-3.5	2	3	8	3	0	0	0
4-5.5	0	0	0	0	0	0	2
6-7.5	0	0	0	0	0	2	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

86

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	14	0	0	0	0	0	0
1-1.5	3	9	3	3	0	0	0
2-2.5	3	8	11	17	3	0	0
3-3.5	0	3	9	0	6	0	0
4-4.5	0	0	3	0	0	0	3
6-7.5	0	0	0	0	0	3	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	3	0	0	+	0	0	+
1-1.5	7	8	8	2	1	0	3
2-2.5	4	7	11	7	2	1	4
3-3.5	+	5	6	8	3	1	2
4-5.5	+	2	1	2	2	1	1
6-7.5	0	1	0	0	1	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

253

33

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	2	0	0	0	0	0	+
1-1.5	8	12	8	2	+	+	2
2-2.5	2	10	8	8	3	2	3
3-3.5	1	3	5	8	2	2	1
4-4.5	1	2	3	3	1	1	+
6-7.5	0	+	1	+	1	1	0
8-9.5	0	+	0	+	+	+	0
>10	0	0	0	0	+	0	

691

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	INC
0-1.0	4	0	0	2	0	0	2
1-1.5	10	10	5	0	0	0	0
2-2.5	2	8	2	15	6	2	4
3-3.5	0	2	2	2	0	0	0
4-4.5	0	4	2	8	2	0	0
6-7.5	0	0	0	2	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

49

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjust

APRIL

4

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	40	6	+	1	0	0	13
1-1.5	28	6	3	1	+	0	+
2-2.5	1	1	+	0	+	0	0
3-3.5	+	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

405

5

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	30	4	1	1	0	0	14
1-1.5	22	7	6	0	1	0	5
2-2.5	0	0	2	1	1	0	1
3-3.5	0	0	2	1	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

147

6

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	38	3	1	+	0	0	4
1-1.5	26	18	4	+	+	+	1
2-2.5	1	2	2	+	+	+	0
3-3.5	+	+	+	+	0	0	0
4-4.5	+	+	+	+	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3483

7

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	28	4	1	1	0	0	18
1-1.5	18	14	8	3	1	1	4
2-2.5	1	2	2	1	0	+	+
3-3.5	0	0	0	0	0	+	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

680

8

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	18	5	2	1	0	0	12
1-1.5	14	14	8	5	4	+	3
2-2.5	1	3	3	2	1	1	+
3-3.5	0	+	+	+	0	+	+
4-4.5	0	0	0	0	+	+	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

868

9

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	32	3	1	1	0	0	19
1-1.5	18	11	2	+	+	0	1
2-2.5	1	2	1	+	0	0	0
3-3.5	+	+	+	+	0	0	0
4-4.5	0	0	+	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1546

13

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	10	5	1	1	0	0	7
1-1.5	24	29	4	1	4	0	8
2-2.5	1	0	2	1	1	0	0
3-3.5	0	0	0	0	0	0	1
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

84

14

INSUFFICIENT DATA

15

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	31	9	0	0	0	0	28
1-1.5	8	17	0	0	0	0	0
2-2.5	6	3	3	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

16

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	6	0	0	0	0	0	1
1-1.5	17	19	17	0	1	0	4
2-2.5	0	9	15	4	4	0	1
3-3.5	0	0	0	1	1	0	0
4-4.5	0	0	0	1	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

139

17

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	4	0	0	0	0	0	1
1-1.5	8	18	8	1	0	1	2
2-2.5	1	15	12	8	1	1	5
3-3.5	0	5	8	2	0	0	1
4-4.5	0	1	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

139

18

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	8	0	0	0	0	0	0
1-1.5	10	20	16	0	8	0	0
2-2.5	3	3	10	3	3	0	0
3-3.5	0	3	0	3	5	6	0
4-4.5	0	0	0	6	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

22

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	28	0	0	0	0	0	3
1-1.5	17	14	8	0	0	0	0
2-2.5	3	23	8	0	3	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

36

23

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	17	2	1	+	0	0	5
1-1.5	21	14	5	2	1	+	3
2-2.5	2	8	7	2	2	1	1
3-3.5	+	1	2	1	1	+	+
4-4.5	+	+	+	0	0	+	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

491

24

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	7	0	0	0	0	0	0
1-1.5	21	14	0	0	0	0	0
2-2.5	0	0	0	0	0	0	0
3-3.5	0	43	0	0	14	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

14

25

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	0	0	0	0	0	0	1
1-1.5	12	7	13	0	1	0	15
2-2.5	1	9	9	8	1	0	3
3-3.5	0	3	8	1	0	0	0
4-4.5	0	0	0	3	1	1	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

75

26

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	2	0	2	2	0	0	0
1-1.5	4	24	11	7	0	0	0
2-2.5	0	7	11	4	0	2	2
3-3.5	0	4	7	4	0	0	0
4-4.5	0	0	2	2	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

48

27

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	8	1	0	0	0	0	1
1-1.5	11	12	3	1	1	0	4
2-2.5	4	17	12	4	3	1	1
3-3.5	0	2	5	4	3	1	1
4-4.5	0	1	0	0	1	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

139

31

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	0	0	0	0	0	0	0
1-1.5	3	9	3	3	0	0	0
2-2.5	3	9	11	17	3	0	0
3-3.5	0	3	8	0	6	0	0
4-4.5	0	0	3	0	0	0	3
5-5.5	0	0	0	0	0	3	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

36

32

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	3	0	0	+	0	0	+
1-1.5	7	8	6	2	1	0	3
2-2.5	4	7	11	7	2	1	4
3-3.5	+	5	5	6	3	1	2
4-4.5	+	2	1	2	2	1	1
5-5.5	0	1	0	0	1	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

253

33

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	2	0	0	0	0	0	+
1-1.5	8	12	8	2	+	+	2
2-2.5	2	10	9	8	3	2	3
3-3.5	1	3	5	6	2	2	1
4-4.5	1	2	3	3	1	1	+
5-5.5	0	+	1	+	1	1	0
6-6.5	0	+	0	+	+	+	0
>10	0	0	0	0	+	0	+

591

34

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	7	+	0	0	0	0	1
1-1.5	18	14	8	+	1	0	2
2-2.5	5	9	8	4	0	0	1
3-3.5	+	4	4	3	1	+	+
4-4.5	0	1	3	1	2	0	1
5-5.5	0	1	0	0	+	1	+
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

236

35

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	3	1	0	0	0	0	0
1-1.5	13	14	3	0	1	0	3
2-2.5	4	14	8	8	2	2	3
3-3.5	2	10	6	1	1	0	0
4-4.5	1	0	2	1	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

135

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	4	0	0	2	0	0	2
1-1.5	10	10	8	0	0	0	0
2-2.5	2	8	2	15	8	2	4
3-3.5	0	2	2	2	0	0	0
4-4.5	0	4	2	8	2	0	0
5-5.5	0	0	0	2	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

48

42

INSUFFICIENT DATA

43

HEIGHT (FEET)	<6	6- 7	8- 9	10- 11	12- 13	>13	INC
0-.5	0	0	0	2	0	0	0
1-1.5	5	3	7	0	0	0	2
2-2.5	0	12	7	3	2	0	5
3-3.5	2	8	12	5	3	0	0
4-4.5	0	0	0	5	3	0	0
5-5.5	0	0	2	7	2	3	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

50

44

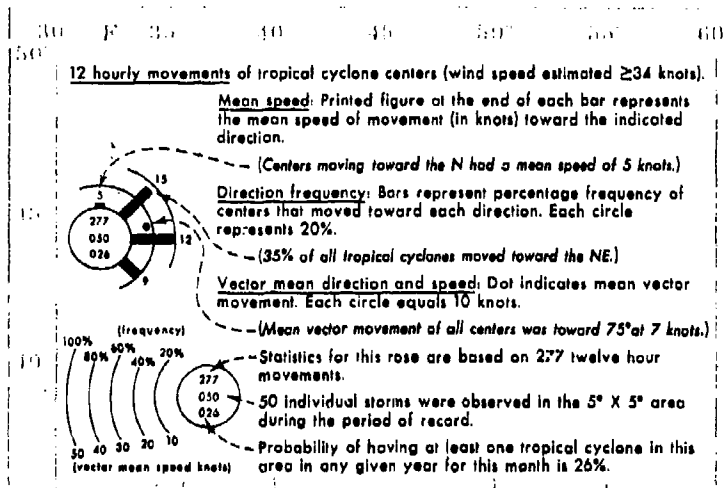
INSUFFICIENT DATA

45

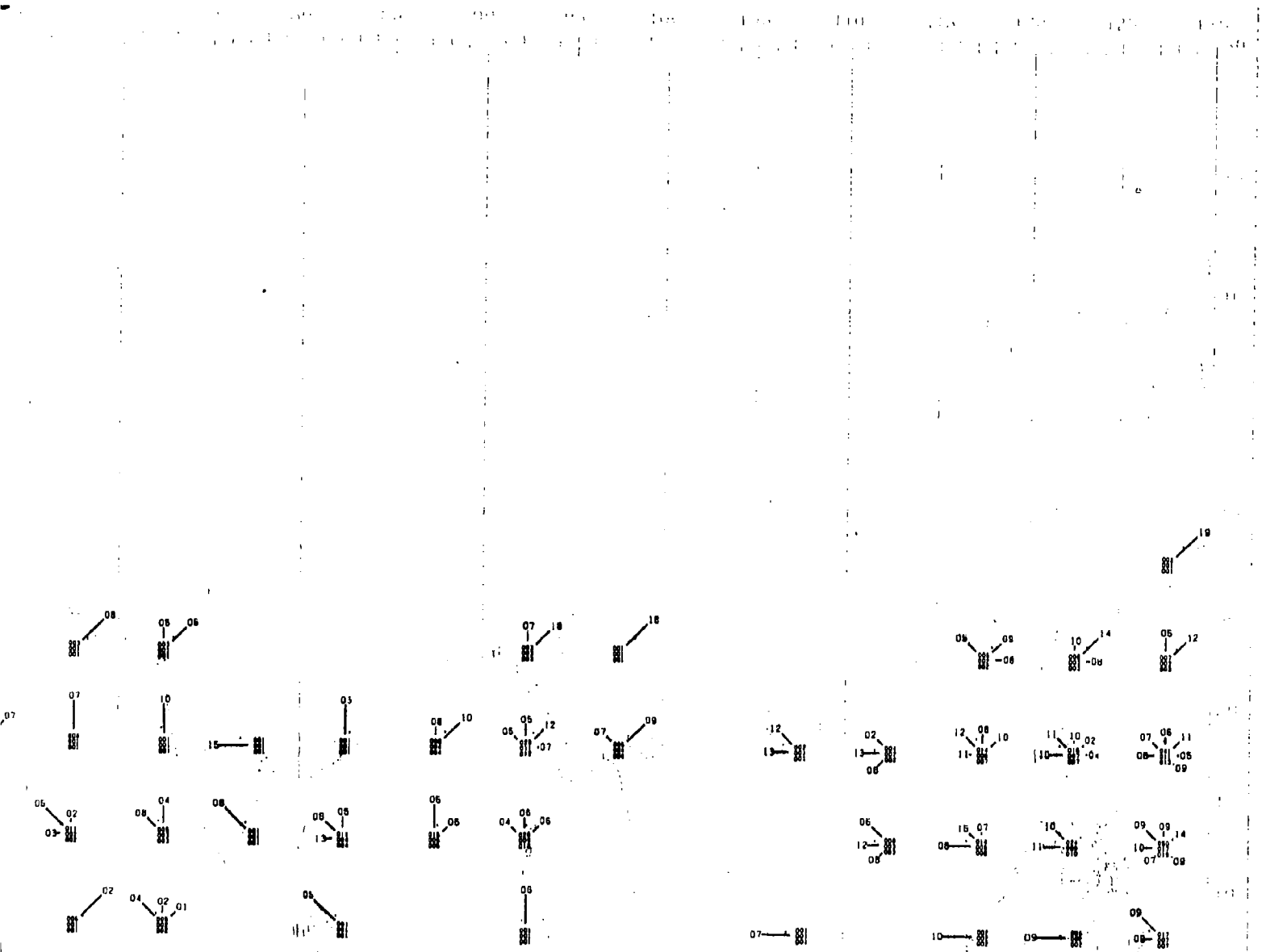
INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

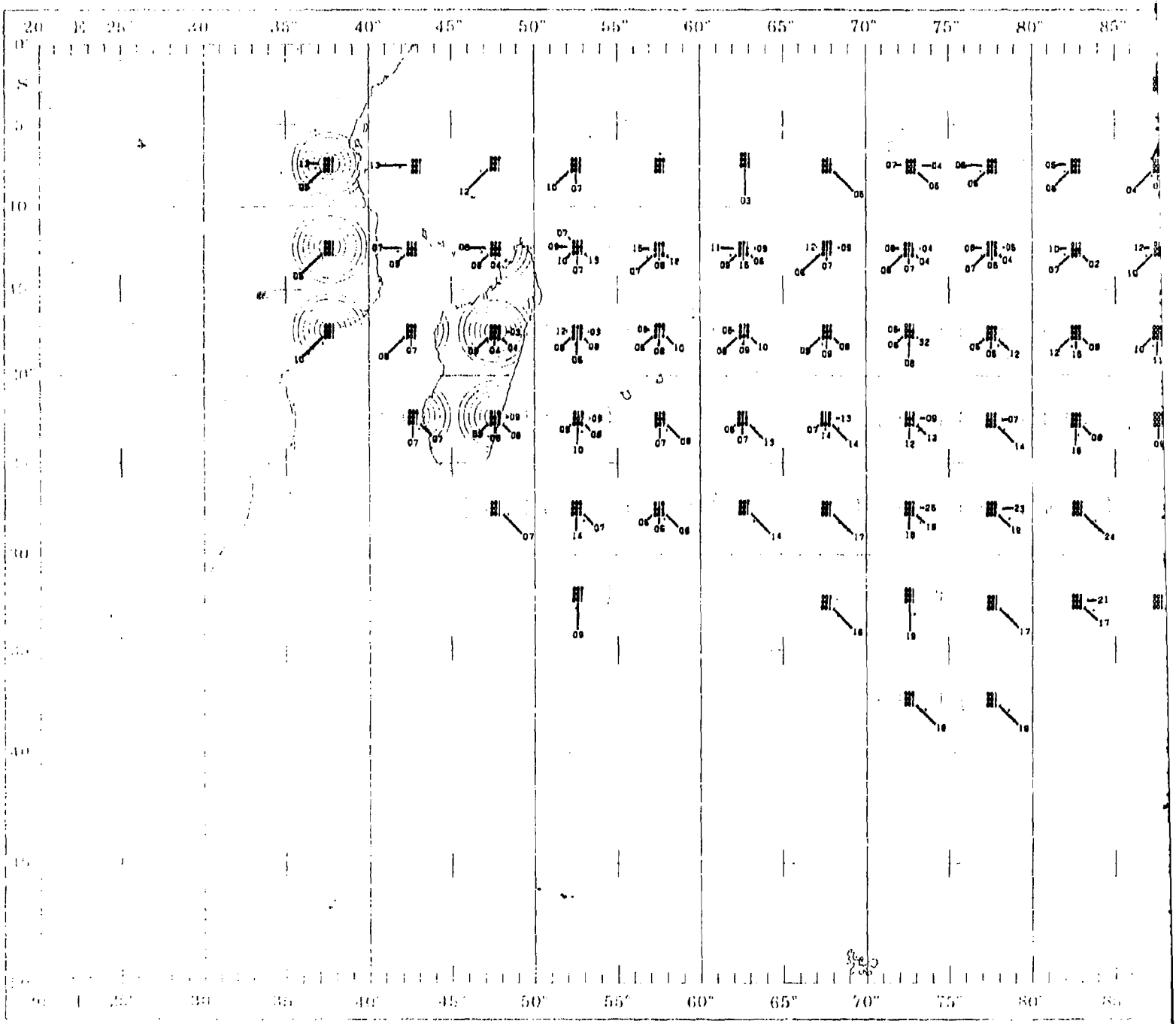
APRIL


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
277
050
026
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.
(frequency)
100%
80%
60%
40%
20%
50 40 30 20 10
(vector mean speed knots)

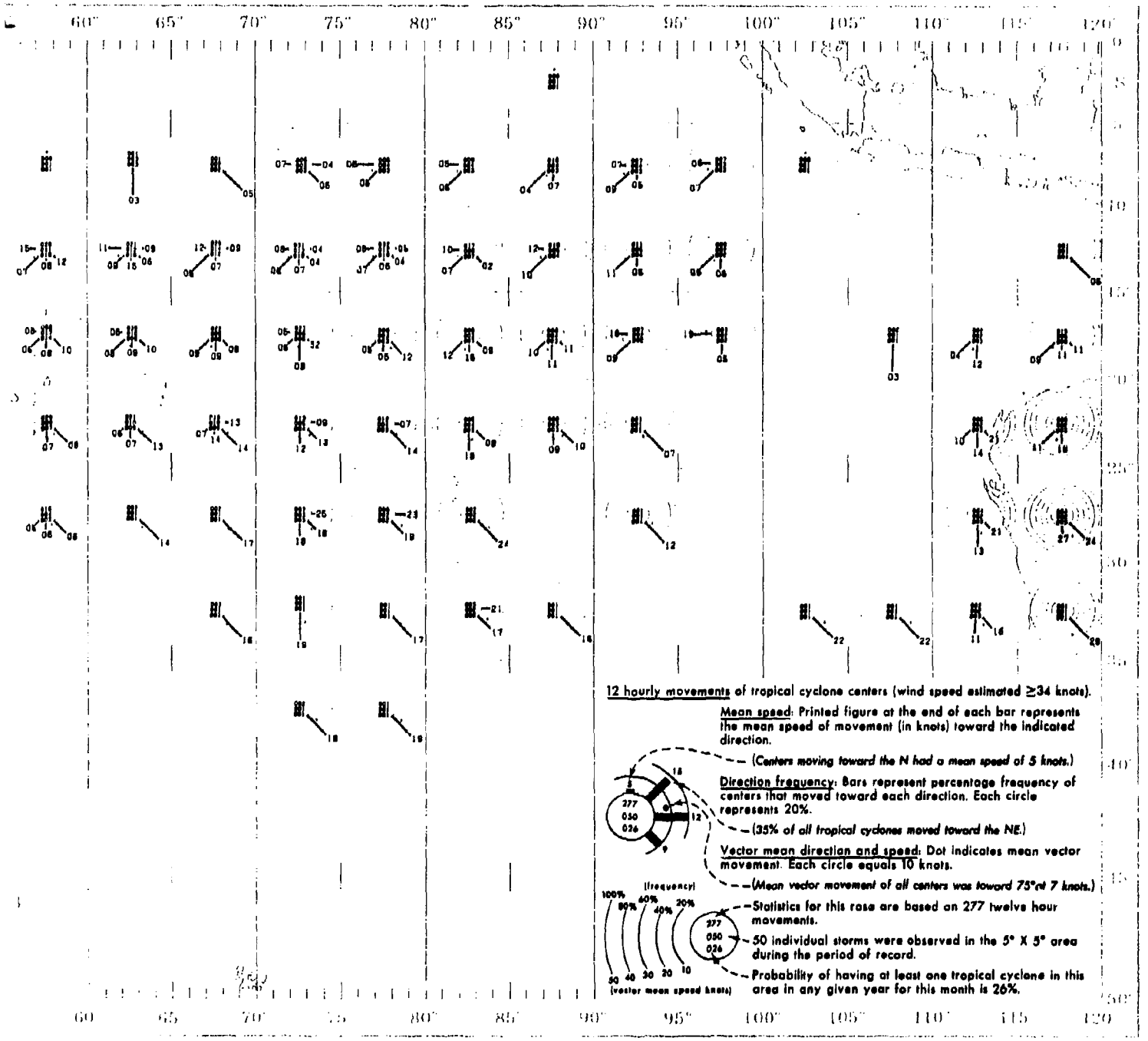
TROPICAL CYCLONE



TROPICAL CYCLONE



APRIL



12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).

Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

(Centers moving toward the N had a mean speed of 5 knots.)

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(35% of all tropical cyclones moved toward the NE.)

Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

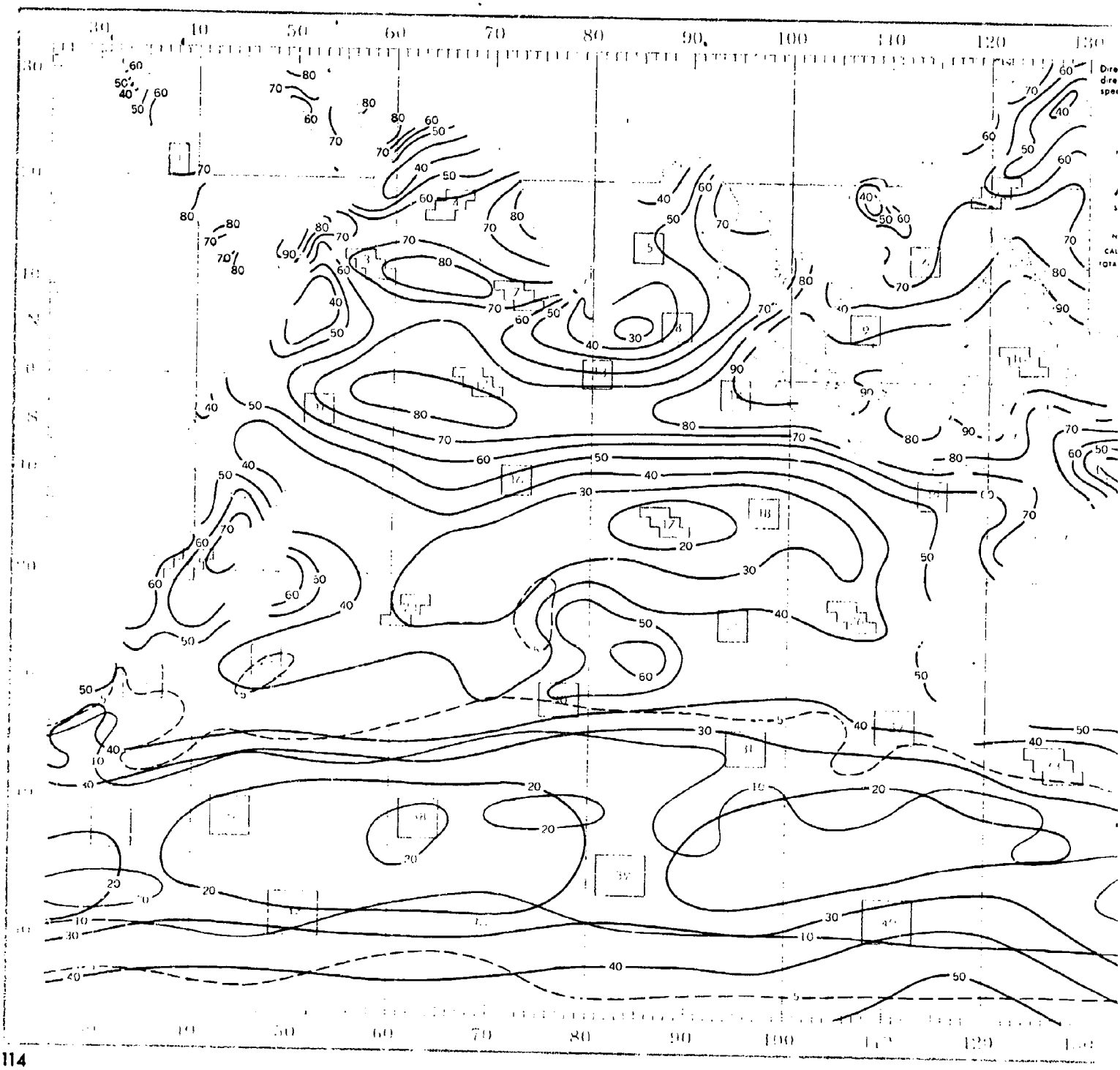
(Mean vector movement of all centers was toward 75°at 7 knots.)

Statistics for this rose are based on 277 twelve hour movements.

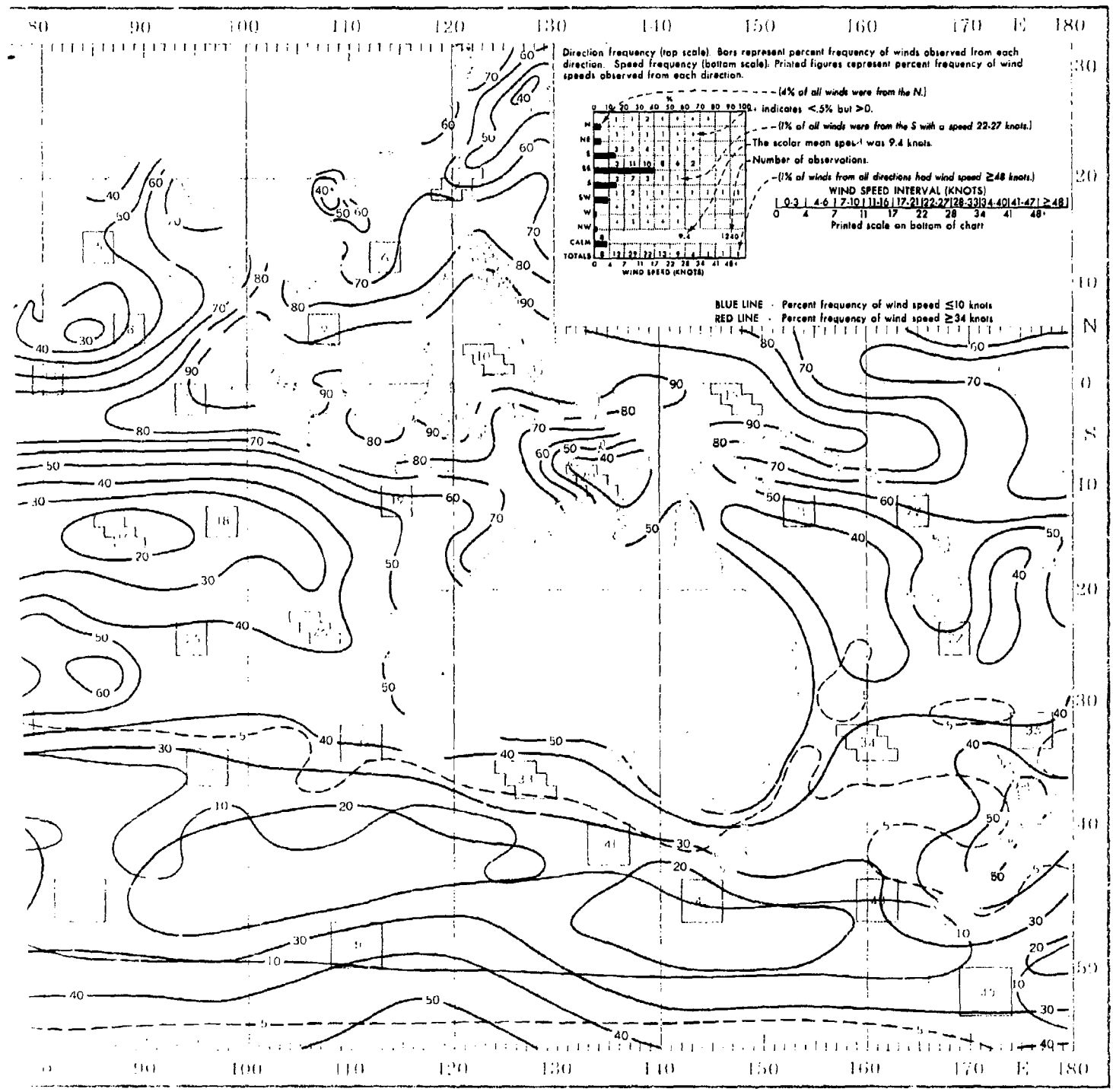
50 individual storms were observed in the 5° X 5° area during the period of record.

Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

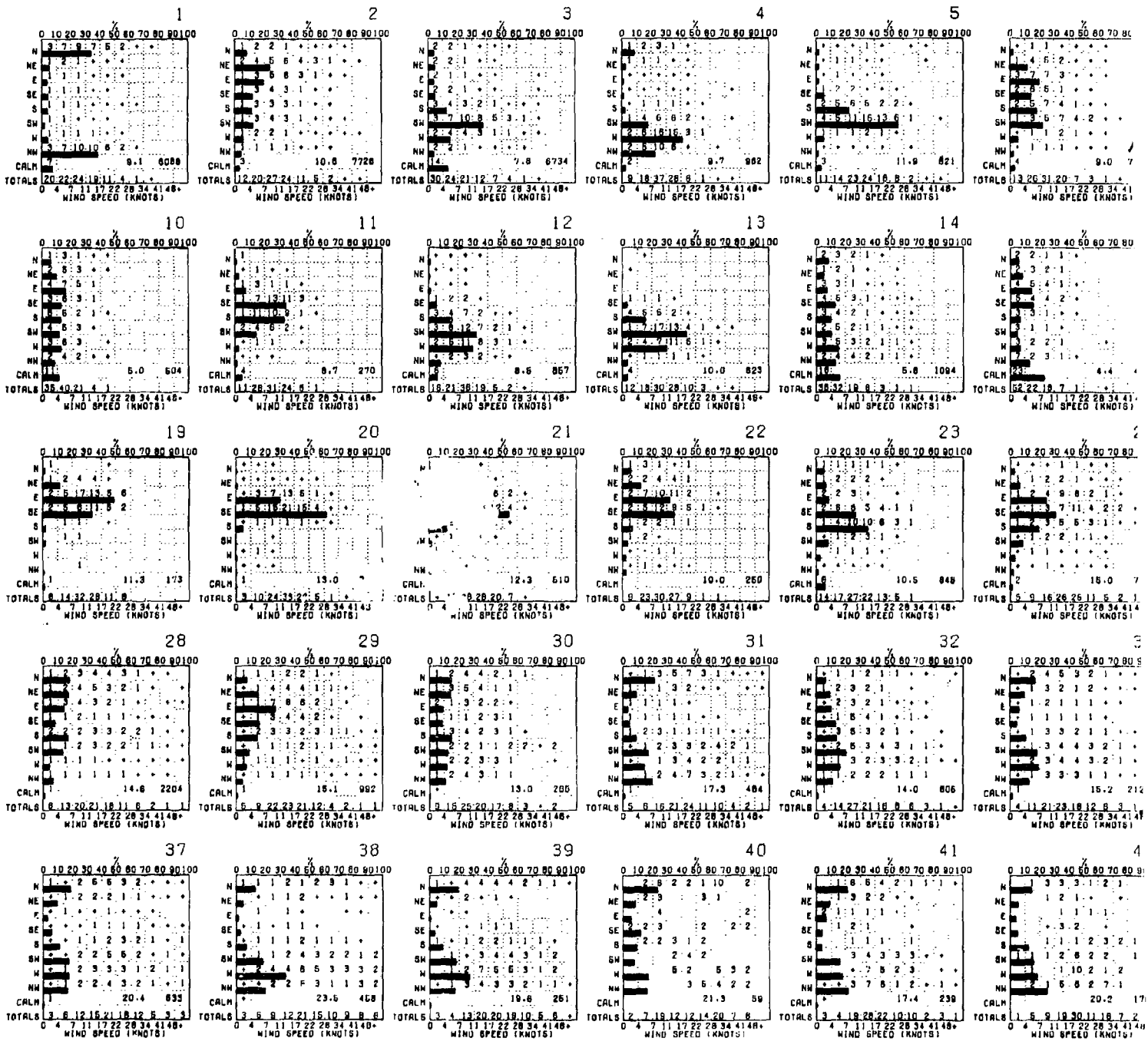
MAY



SURFACE WINDS



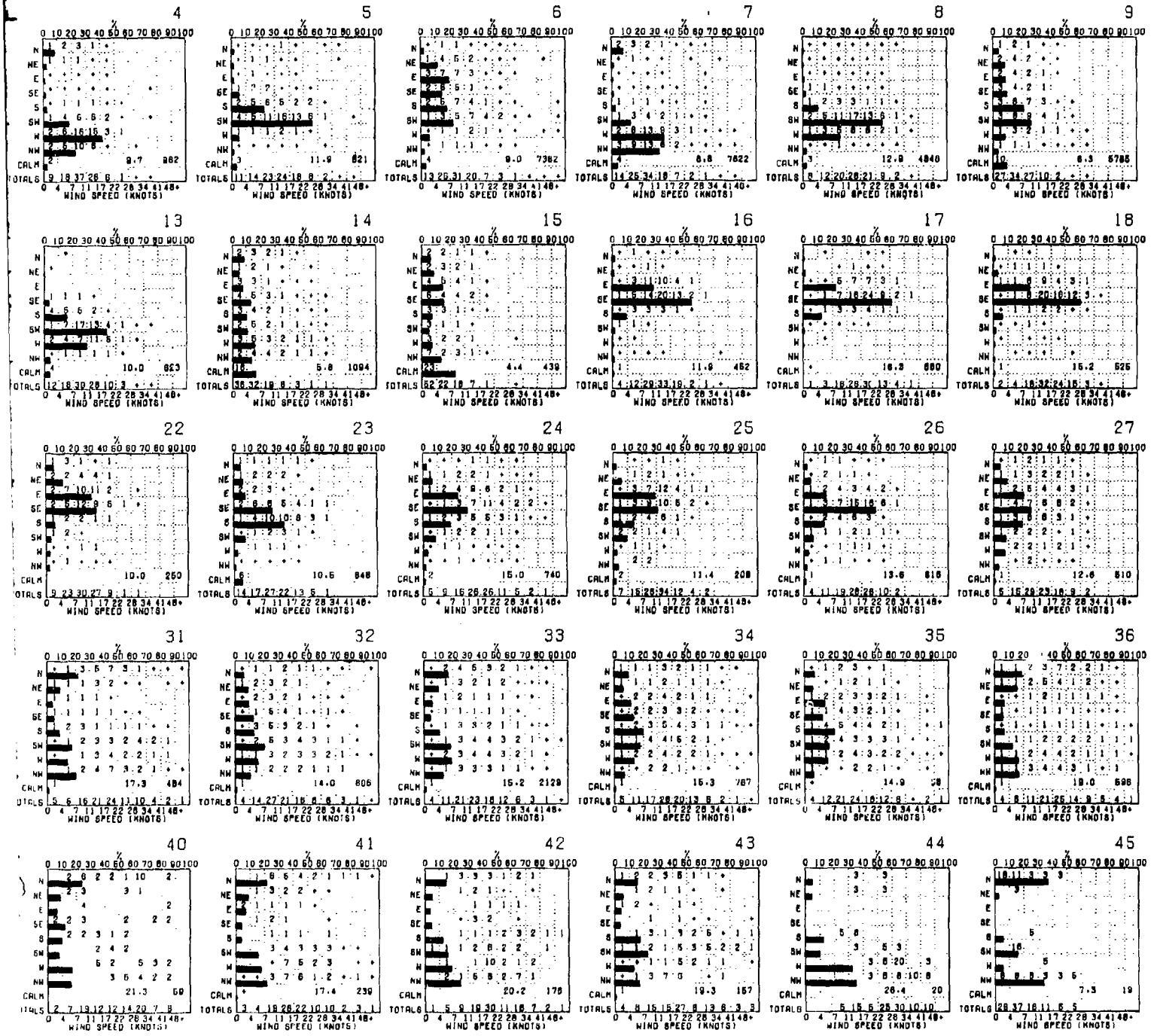
WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

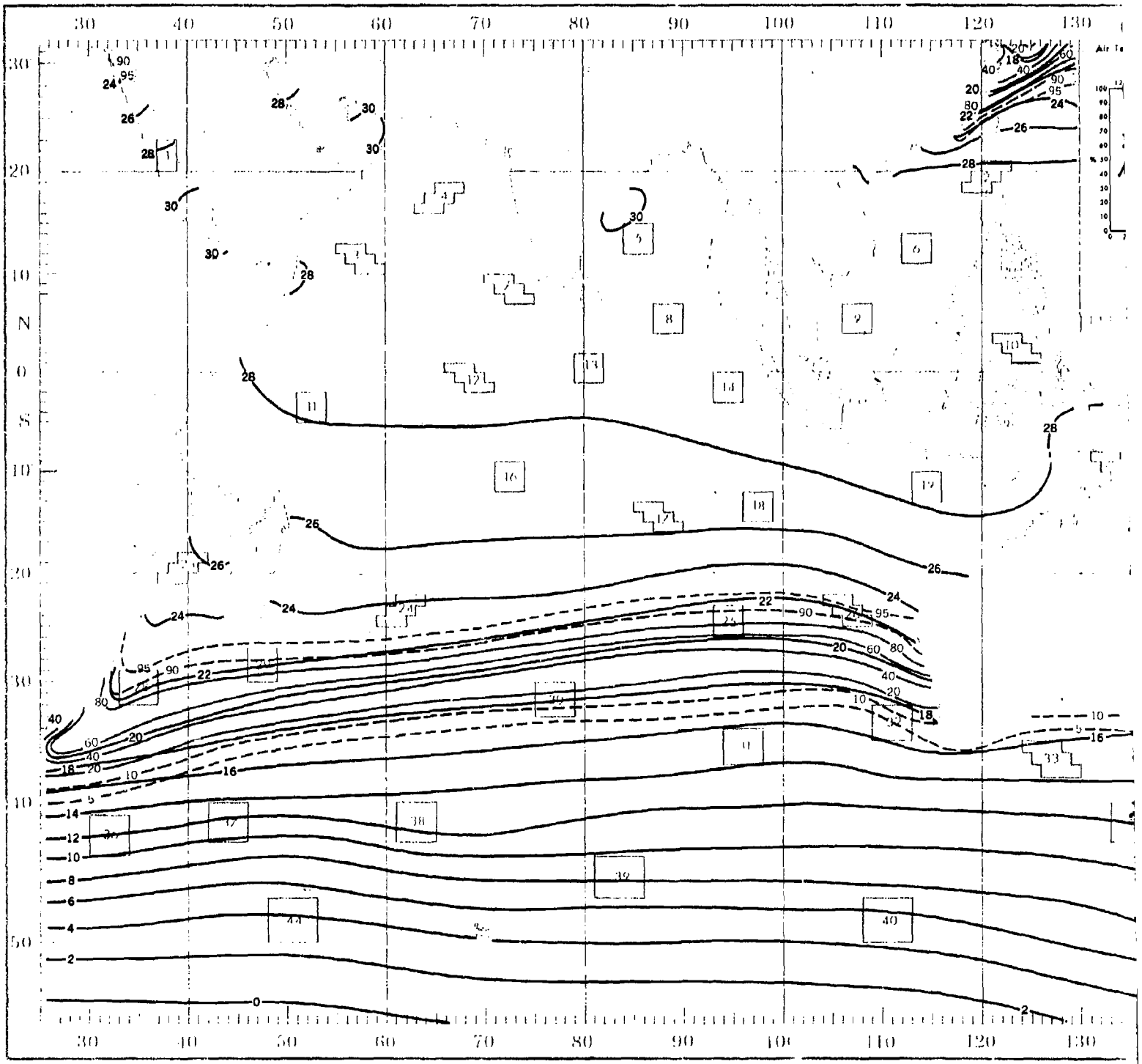
ED

MAY

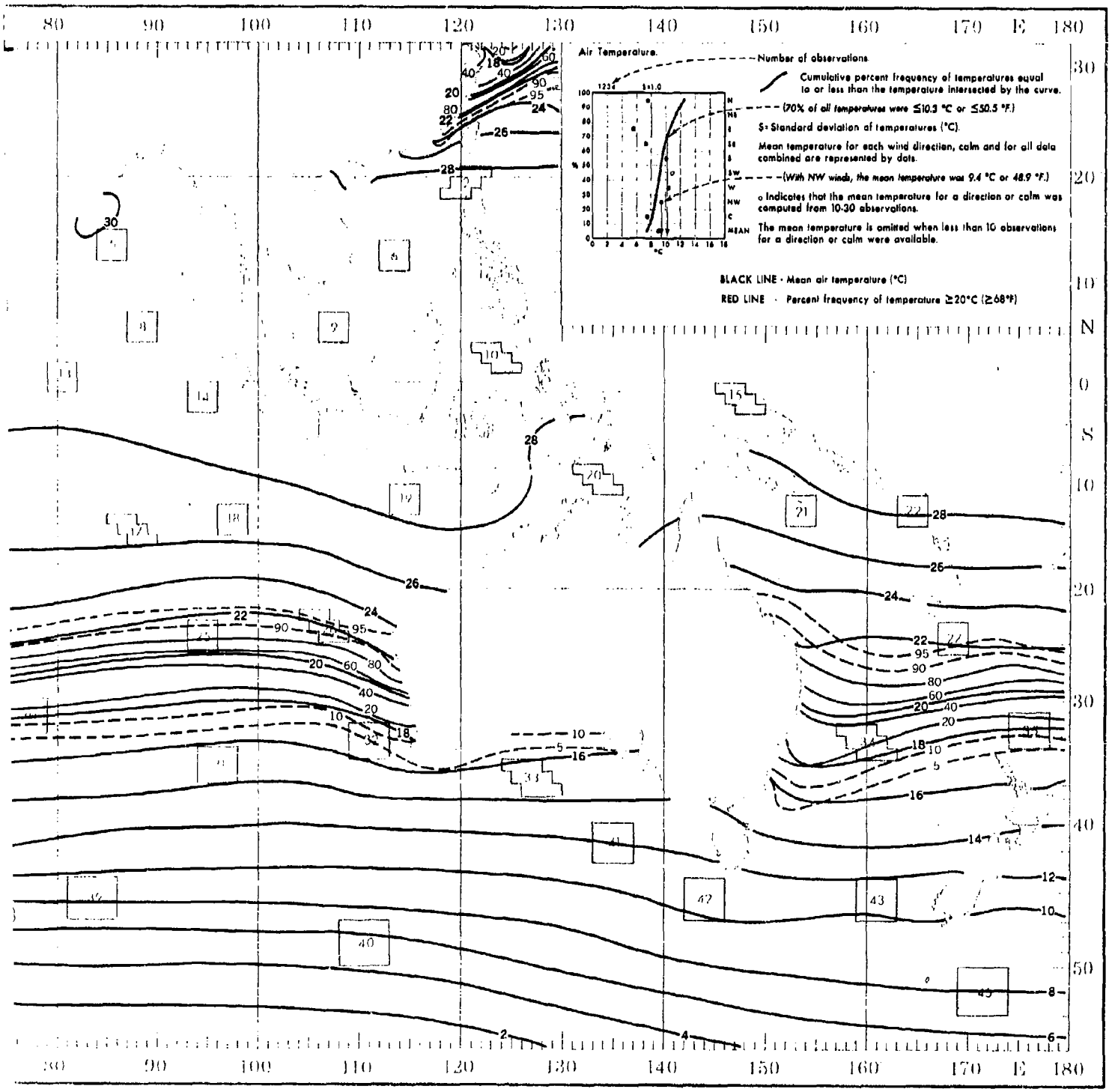


ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

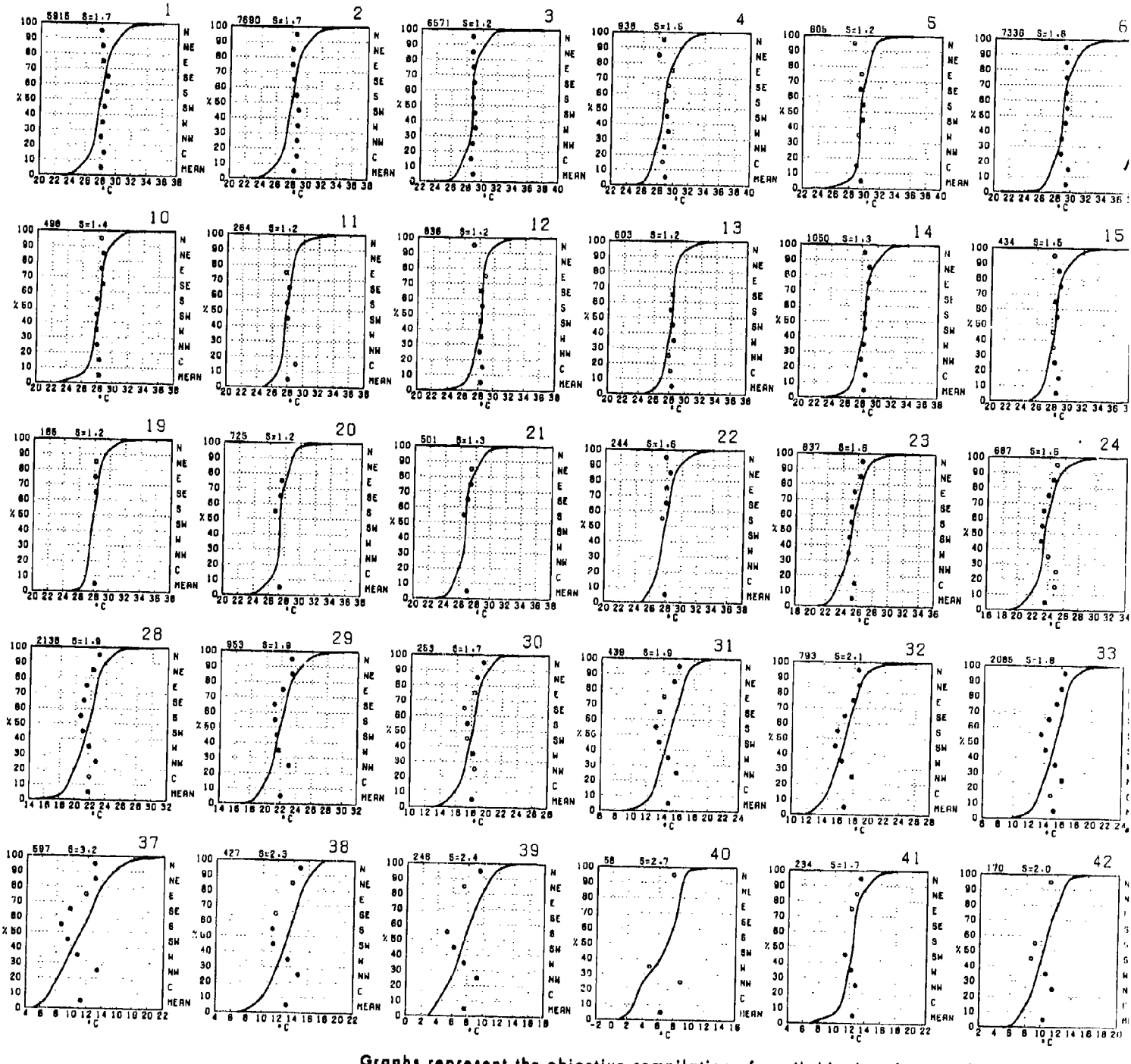
MAY SUR



SURFACE AIR TEMPERATURE



SURFACE AIR TEMPERATURE



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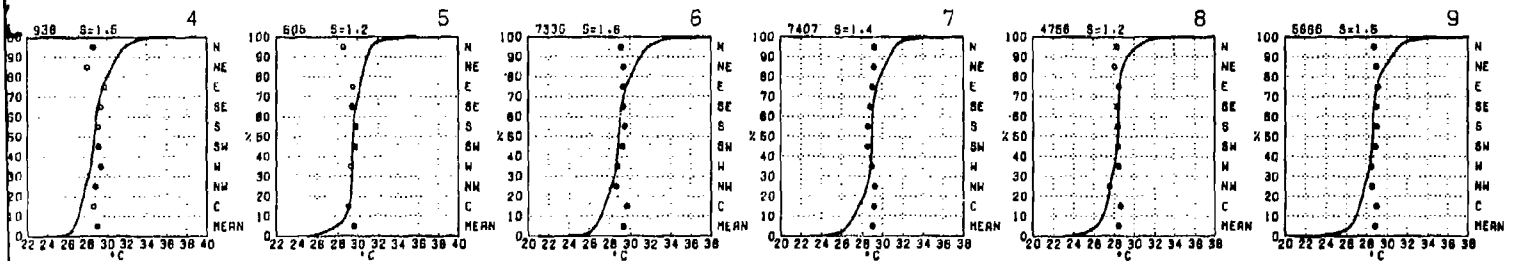
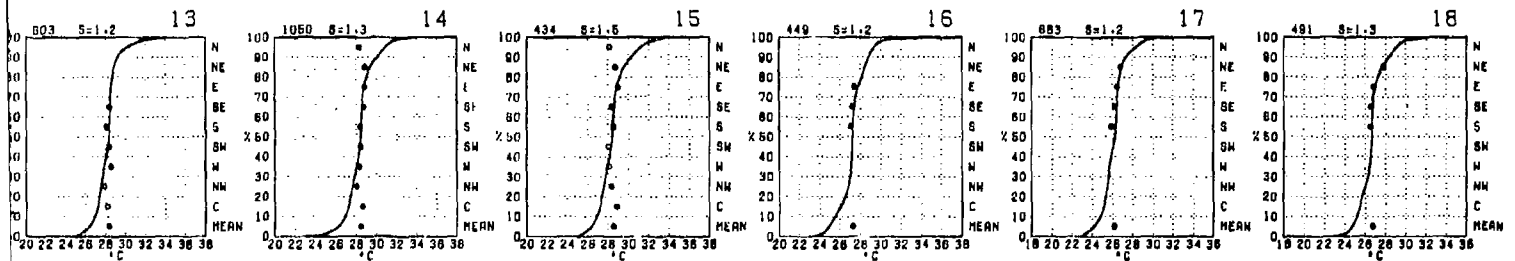
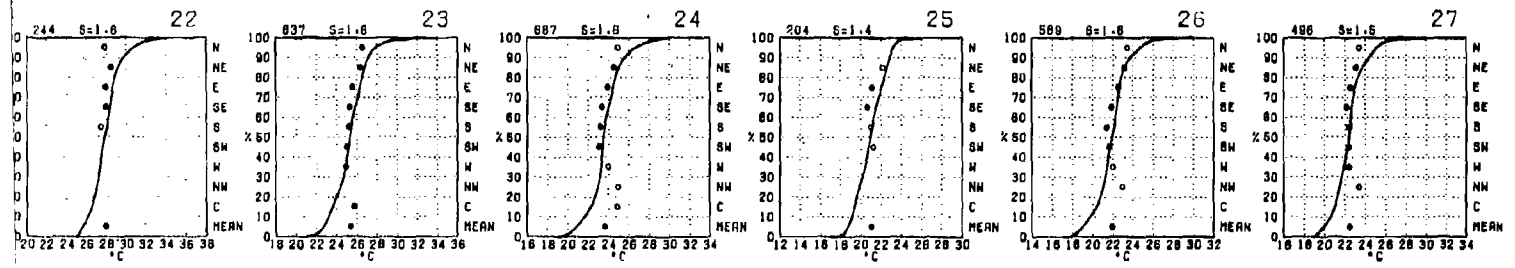
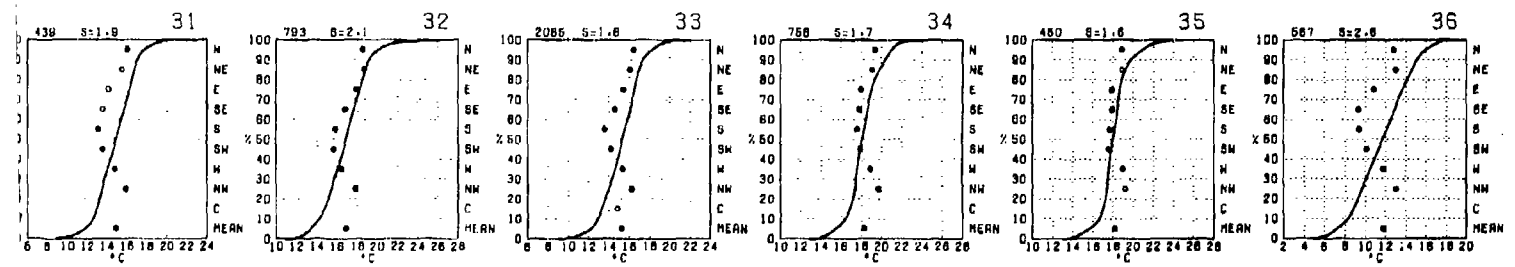
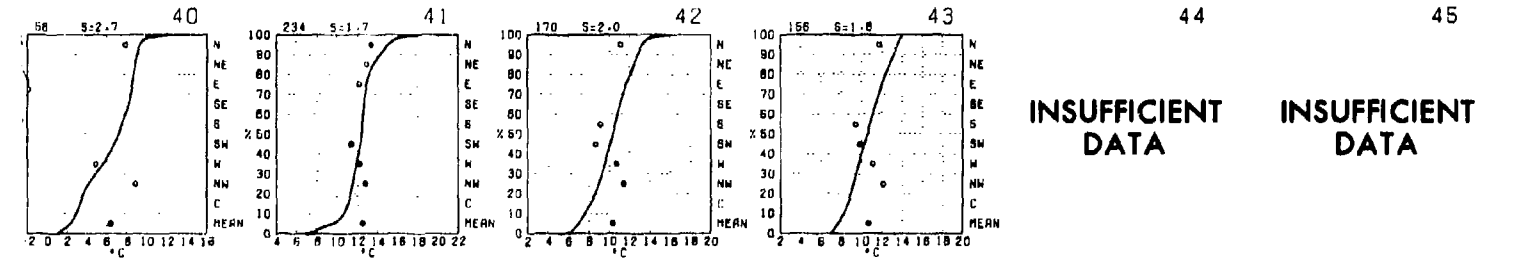
MAY











44

INSUFFICIENT DATA

45

INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
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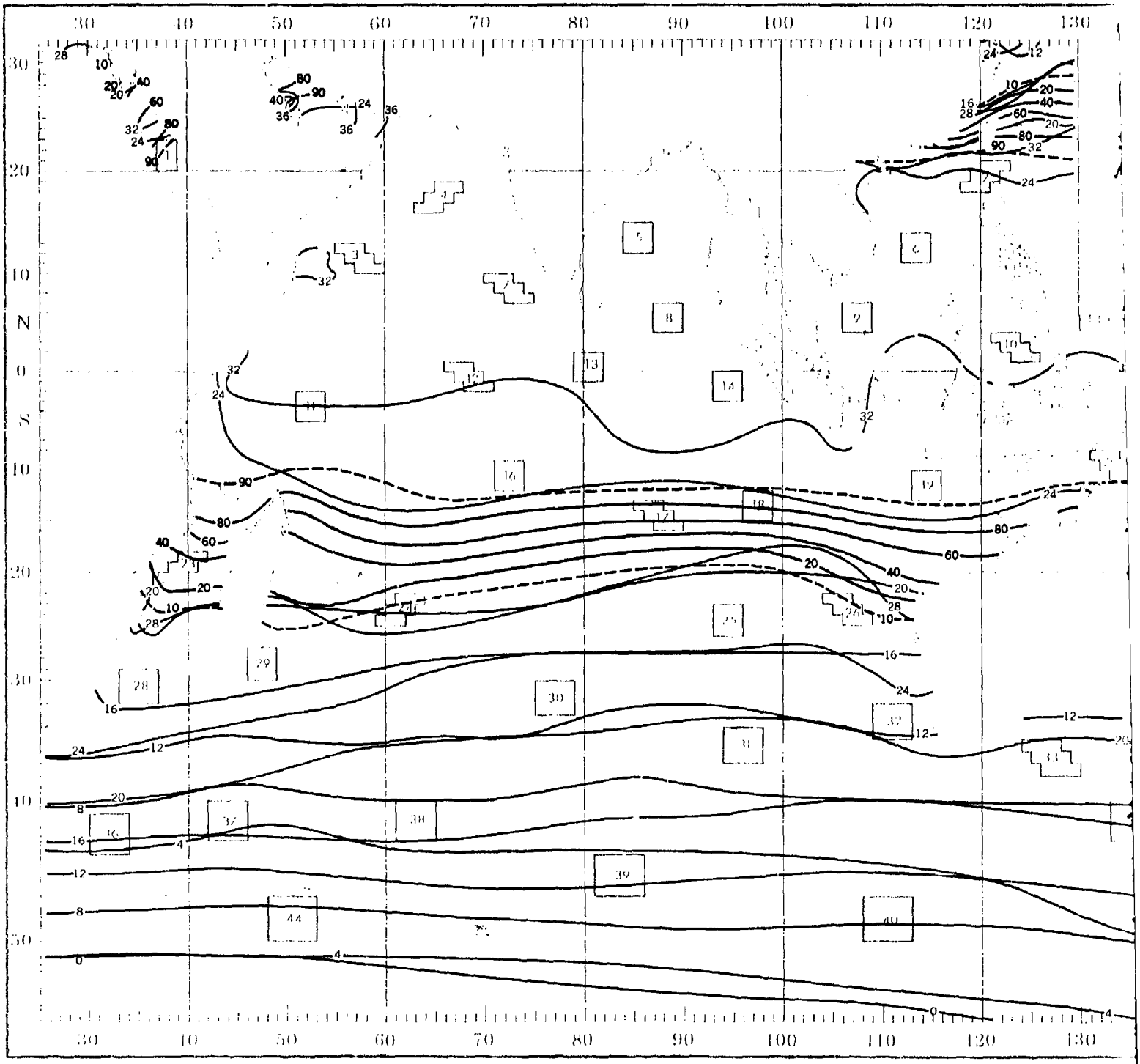
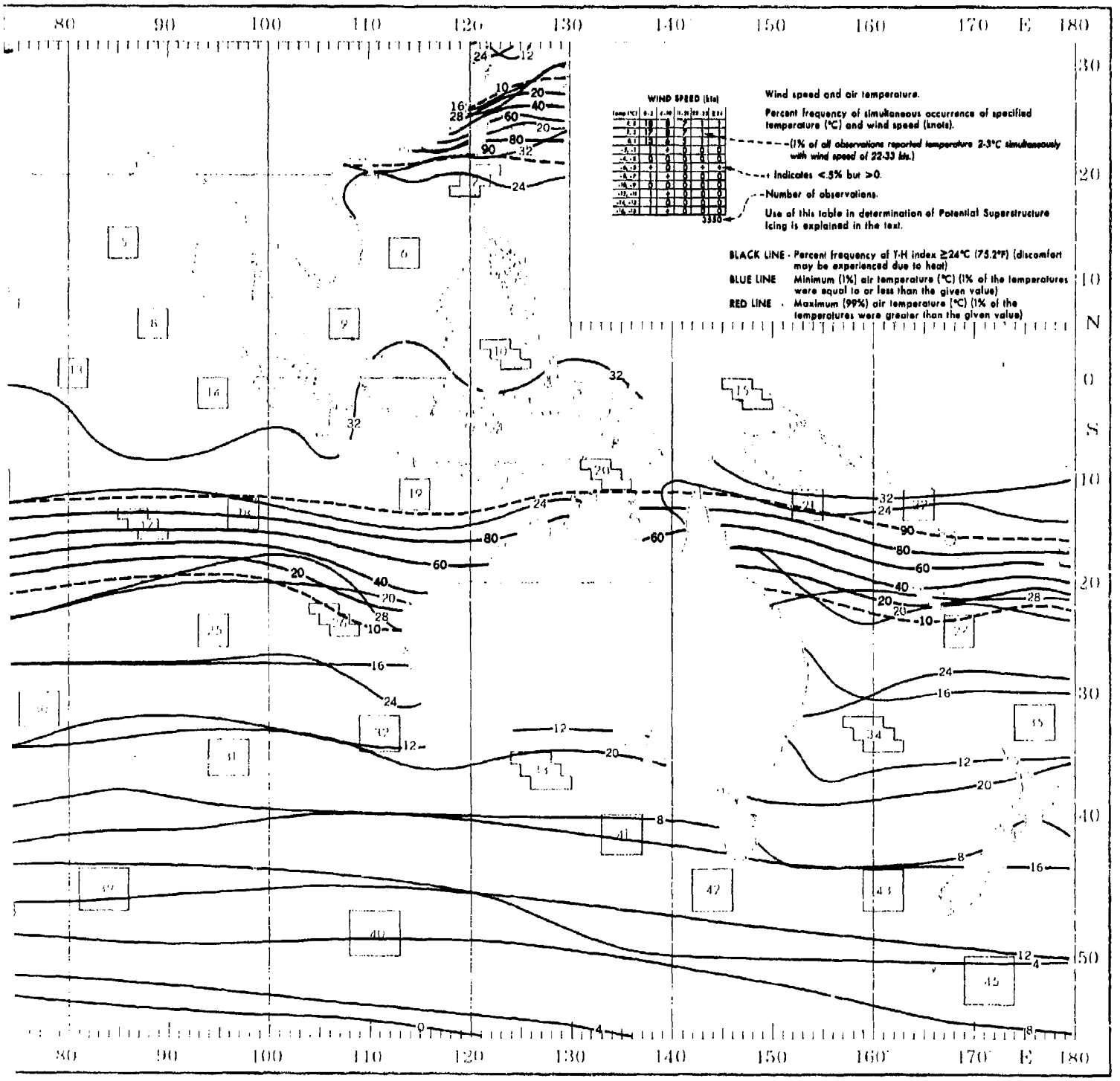
MAY

TEMPERATURE EX



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	0	0	0
34.36	+	+	+	0	0
32.33	1	1	1	+	0
30.31	4	8	4	+	0
28.28	9	21	13	2	0
26.27	5	13	11	2	0
24.26	+	1	2	+	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5954

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.36	+	+	+	0	0
32.33	1	2	1	+	0
30.31	3	11	8	1	+
28.28	7	24	17	3	+
26.27	2	9	9	3	+
24.26	+	1	1	1	+
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7703

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	+	0	0
34.36	+	+	+	0	0
32.33	1	1	1	+	0
30.31	7	12	6	1	+
28.28	21	29	11	4	+
26.27	2	2	1	+	+
24.26	+	+	+	0	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5591

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	1	+	0	0
32.33	1	3	3	0	0
30.31	2	13	10	1	+
28.28	4	31	19	1	+
26.27	2	7	2	0	0
24.26	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

942

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	0	0
32.33	1	2	2	+	0
30.31	4	16	23	5	0
28.28	6	18	15	3	+
26.27	+	+	1	+	+
24.26	0	+	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

610

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21	2
36.37	+	+	+	
34.36	+	1	+	
32.33	1	4	2	
30.31	4	19	8	
28.28	7	30	13	
26.27	1	4	2	
24.26	+	+	+	
22.23	+	+	+	
20.21	0	0	0	
18.19	0	0	0	
16.17	0	0	0	

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	+	0	0
30.31	3	7	+	0	0
28.28	23	36	2	0	0
26.27	8	12	2	0	0
24.26	1	1	+	0	0
22.23	+	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

503

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	2	1	0	0
30.31	3	4	2	0	0
28.28	6	38	16	1	0
26.27	7	15	11	0	0
24.26	0	+	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

284

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	3	8	3	+	0
28.28	12	40	16	1	0
26.27	2	9	5	1	0
24.26	0	1	+	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

842

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	1	0	0
30.31	2	6	4	0	0
28.28	8	35	27	2	+
26.27	2	5	6	1	0
24.26	0	1	+	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

603

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	1	1	+	0	0
30.31	7	9	1	0	0
28.28	24	34	7	1	0
26.27	4	6	3	1	0
24.26	+	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.18	0	0	0	0	0

1052

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
32.33	3	2	0	
30.31	8	5	+	
28.28	31	24	5	
26.27	8	8	2	
24.26	1	0	0	
22.23	0	0	0	
20.21	0	0	0	
18.19	0	0	0	
16.17	0	0	0	
14.18	0	0	0	
12.13	0	0	0	

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.33	0	1	0	0	0
30.31	1	5	4	1	0
28.28	3	21	25	6	0
26.27	3	18	10	0	0
24.26	0	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

165

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	0	+	0	0
32.33	0	1	1	0	0
30.31	+	2	1	0	0
28.28	2	16	28	2	0
26.27	1	15	27	3	+
24.25	0	1	2	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.18	0	0	0	0	0

726

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	1	2	2	0	0
28.29	2	16	13	2	0
26.27	2	21	30	4	0
24.26	+	4	4	1	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

503

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	3	0	0	0
30.31	1	8	1	+	0
28.28	5	25	18	1	0
26.27	3	16	13	1	0
24.26	+	1	3	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

244

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	0	0	0
30.31	+	+	+	0	0
28.29	2	4	3	+	0
26.27	5	18	12	2	0
24.26	6	20	16	3	0
22.23	1	2	3	1	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

852

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
30.31	+	+	+	
28.29	+	+	1	
26.27	1	3	5	
24.25	2	11	19	
22.23	1	8	24	
20.21	+	1	2	
18.19	0	0	0	
16.17	0	0	0	
14.18	0	0	0	
12.13	0	0	0	
10.11	0	0	0	

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	+	+	+	0	0
26.27	+	1	1	+	+
24.26	1	5	6	3	+
22.23	3	13	18	6	1
20.21	3	11	10	4	1
18.18	1	3	3	3	2
16.17	+	+	+	+	+
14.16	+	0	+	0	0
12.15	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

2147

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.28	0	+	+	+	0
26.27	+	1	2	+	+
24.25	2	6	7	3	+
22.23	2	14	17	7	1
20.21	1	8	14	6	1
18.19	+	2	3	1	1
16.17	0	0	0	0	+
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

954

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	1	0	0
20.21	2	9	7	2	0
18.19	5	22	17	5	0
16.17	1	9	10	3	2
14.15	1	2	2	+	+
12.13	0	0	0	0	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

255

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	0	+	0
18.19	0	1	4	+	+
16.17	1	5	16	9	1
14.15	2	10	17	7	2
12.13	2	5	5	3	2
10.11	1	1	+	2	0
8.9	0	0	0	0	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

438

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	0	0
22.23	0	1	1	+	0
20.21	1	4	3	+	+
18.18	1	11	12	4	1
16.17	2	16	13	4	1
14.15	1	8	6	4	1
12.13	0	1	2	1	+
10.11	0	0	+	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

795

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
20.21	+	+	+	
18.18	+	4	5	
16.17	1	12	17	
14.15	2	11	13	
12.13	1	5	5	
10.11	0	+	1	
8.9	0	0	0	
6.7	0	0	0	
4.5	0	0	0	
2.3	0	0	0	
0.1	0	0	0	

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	1	0	0
18.18	0	0	1	1	+
16.17	0	1	3	2	1
14.15	+	2	5	4	2
12.13	2	5	8	7	3
10.11	1	4	6	6	2
8.9	1	4	8	6	2
6.7	+	2	3	5	1
4.5	0	0	1	0	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0

597

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	+	+	+
16.17	2	4	8	4	3
14.15	1	8	10	10	4
12.13	0	3	8	7	7
10.11	+	2	5	4	5
8.9	0	1	2	1	2
6.7	0	0	+	0	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

427

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	+	1	3	1
10.11	0	3	7	7	2
8.8	2	6	13	7	2
6.7	1	4	11	8	2
4.5	+	3	8	3	3
2.3	0	1	+	2	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

246

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	2	2	5	0
8.8	0	3	7	19	5
6.7	2	14	5	2	0
4.5	0	3	3	7	2
2.3	0	3	6	2	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

58

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	+	0	0
16.17	0	0	+	+	1
14.15	+	5	13	3	3
12.13	1	13	28	9	1
10.11	1	5	5	5	1
8.8	0	+	2	1	0
6.7	0	0	0	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0

234

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21	22-
14.15	0	0	2	
12.13	1	4	15	
10.11	0	5	10	
8.8	0	4	10	
6.7	0	1	6	
4.5	0	0	0	
2.3	0	0	0	
0.1	0	0	0	
-2.-1	0	0	0	
-4.-3	0	0	0	
-8.-5	0	0	0	

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adj

ERATURE

MAY

4 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	+	0	0
32.33	1	3	3	0	0
30.31	2	13	10	1	+
28.29	4	31	19	1	+
26.27	2	7	2	0	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

947

5 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	1	2	2	+	0
30.31	4	16	23	6	0
28.29	6	18	16	3	+
26.27	+	+	1	+	+
24.25	0	+	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

610

6 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	+	+	0
34.35	+	1	+	+	0
32.33	1	4	2	+	0
30.31	4	19	8	1	+
28.29	7	30	13	2	+
26.27	1	4	2	1	+
24.25	+	+	+	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7341

7 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.35	+	+	+	0	0
32.33	1	2	1	+	0
30.31	6	19	7	+	+
28.29	7	33	14	1	+
26.27	1	4	3	1	+
24.25	+	+	+	+	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7418

8 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	+	+	0
32.33	+	+	1	+	0
30.31	1	4	7	1	+
28.29	6	22	33	8	+
26.27	1	4	7	2	+
24.25	+	+	1	+	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4763

9 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	0	0	0
34.35	+	+	+	0	0
32.33	1	2	1	0	0
30.31	8	14	3	+	0
28.29	17	37	6	+	0
26.27	2	8	2	+	0
24.25	+	1	+	+	0
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5885

13 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	1	0	0
30.31	2	6	4	0	0
28.29	8	35	27	2	+
26.27	2	5	6	1	0
24.25	0	1	+	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

803

14 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	1	1	+	0	0
30.31	7	9	1	0	0
28.29	24	34	7	1	0
26.27	4	6	3	1	0
24.25	+	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

1052

15 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	3	2	0	0	0
30.31	8	6	+	+	0
28.29	31	24	5	0	0
26.27	9	8	2	0	0
24.25	1	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

438

16 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	2	2	0	0
28.29	2	14	18	+	+
26.27	2	24	29	2	0
24.25	+	2	2	1	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

450

17 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	1	+	0
28.29	+	2	8	2	0
26.27	1	12	38	11	+
24.25	1	6	14	3	1
22.23	0	0	1	1	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

666

18 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	1	1	0
28.29	+	6	12	2	0
26.27	1	16	37	13	+
24.25	0	1	6	3	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

491

22 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	3	0	0	0
30.31	1	9	1	+	0
28.29	5	25	18	1	0
26.27	3	16	13	1	0
24.25	+	1	3	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

244

23 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	0	0	0
30.31	+	+	+	0	0
28.29	2	4	3	+	0
26.27	5	18	12	2	0
24.25	6	20	16	3	0
22.23	1	2	3	1	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

852

24 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	+	0	0
28.29	+	+	1	+	0
26.27	1	3	5	1	0
24.25	2	11	19	8	1
22.23	1	9	24	6	2
20.21	+	1	2	1	+
18.19	0	0	0	+	0
16.17	0	0	0	1	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

888

25 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	2	2	0	0
22.23	4	17	16	1	0
20.21	5	18	20	4	0
18.19	+	2	8	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

209

26 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	+	+	0	0
26.27	+	1	1	0	0
24.25	1	5	6	1	0
22.23	3	14	27	6	0
20.21	1	8	18	5	0
18.19	0	1	2	0	0
16.17	0	+	1	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

591

27 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	+	0	0	0
26.27	+	2	1	+	0
24.25	+	8	6	1	0
22.23	4	24	23	7	0
20.21	+	7	10	2	0
18.19	0	1	+	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

498

31 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	0	+	0
18.19	0	1	4	+	+
16.17	1	6	18	9	1
14.15	2	10	17	7	2
12.13	2	6	5	3	2
10.11	1	1	+	2	0
8.9	0	0	0	0	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

439

32 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	0	0
22.23	0	1	1	+	0
20.21	1	4	3	+	+
18.19	1	11	12	4	1
16.17	2	16	13	4	1
14.15	1	8	6	4	1
12.13	0	1	2	1	+
10.11	0	0	+	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

735

33 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	+	+	0
18.19	+	4	5	2	+
16.17	1	12	17	6	1
14.15	2	11	13	6	1
12.13	1	5	5	3	1
10.11	0	+	1	+	+
8.9	0	0	0	+	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

2088

34 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	1	2	1	1	0
20.21	1	5	10	2	1
18.19	3	13	20	8	1
16.17	1	7	13	6	1
14.15	0	1	1	1	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

761

35 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	1	2	0	0
20.21	+	4	6	2	+
18.19	2	18	23	8	1
16.17	2	10	11	7	1
14.15	+	+	1	1	+
12.13	0	+	0	+	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

452

36 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	0	0	+
16.17	0	2	4	2	1
14.15	1	4	12	4	1
12.13	1	5	13	7	3
10.11	1	4	11	4	2
8.9	1	3	5	4	1
6.7	0	+	2	1	2
4.5	0	0	0	0	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

567

40 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	2	2	5	0
8.9	0	3	7	19	5
6.7	2	14	6	2	0
4.5	0	3	3	7	2
2.3	0	3	5	2	9
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
0.-8	0	0	0	0	0

58

41 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	0	0
16.17	0	0	+	+	1
14.15	+	5	13	3	3
12.13	1	13	28	9	1
10.11	1	5	5	5	1
8.9	0	+	2	1	0
6.7	0	0	0	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

234

42 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	2	2	0
12.13	1	4	15	8	3
10.11	0	5	18	8	3
8.9	0	4	10	4	2
6.7	0	1	6	2	1
4.5	0	0	0	1	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

170

43 — WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	1	1	0	1
12.13	1	5	21	3	3
10.11	1	10	10	8	3
8.9	1	5	10	9	3
6.7	1	1	0	1	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

156

44

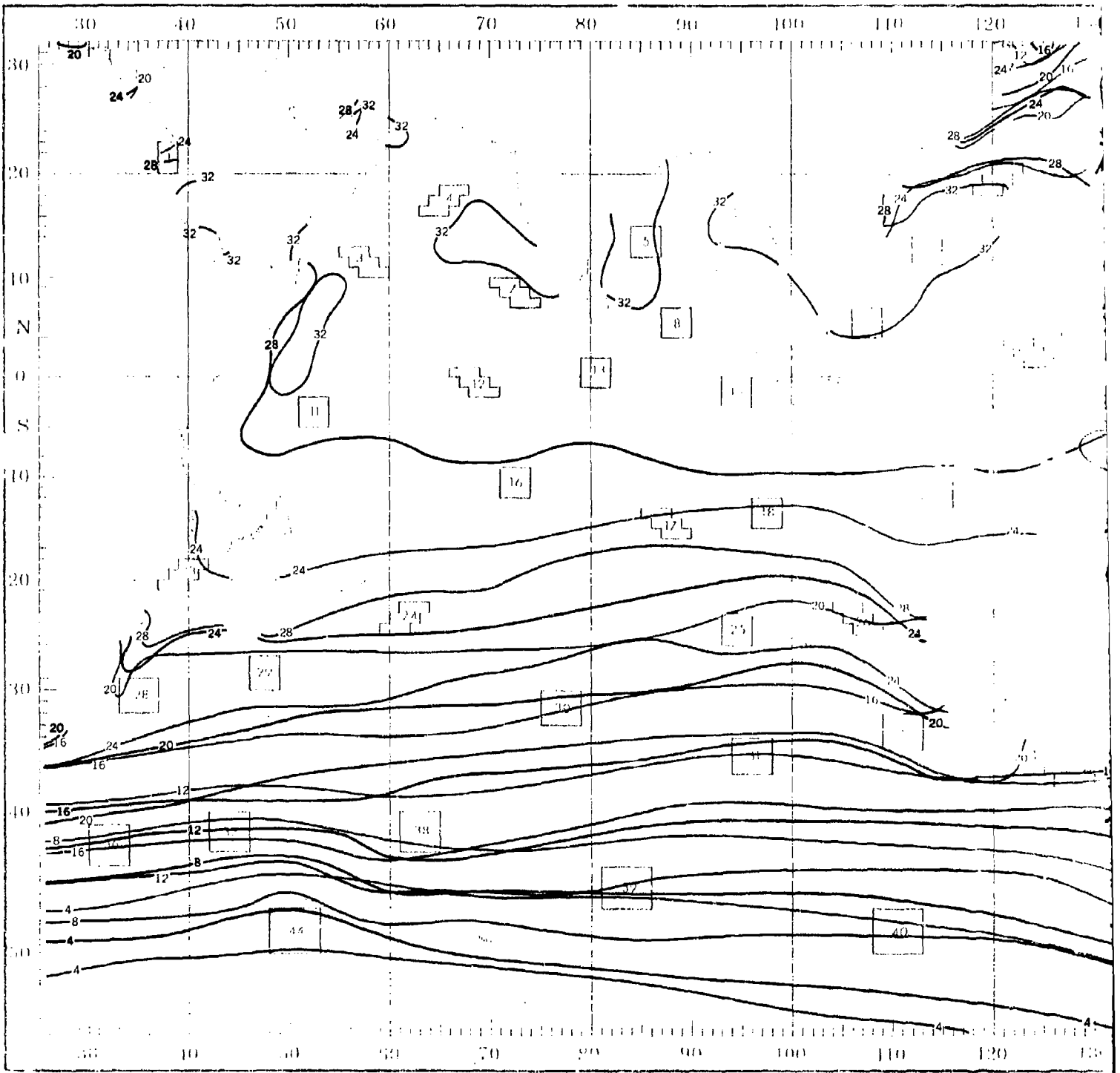
INSUFFICIENT DATA

45

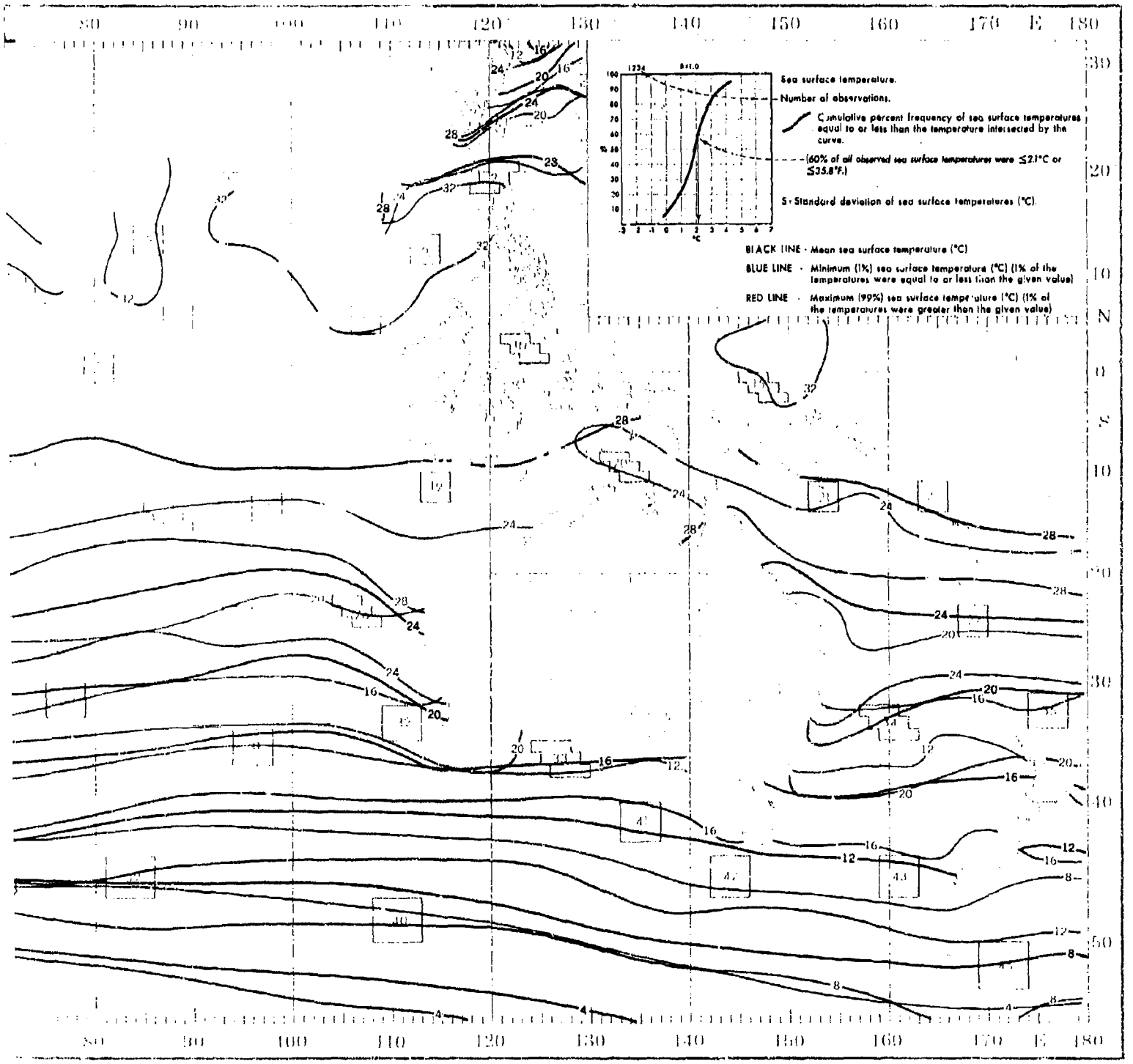
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

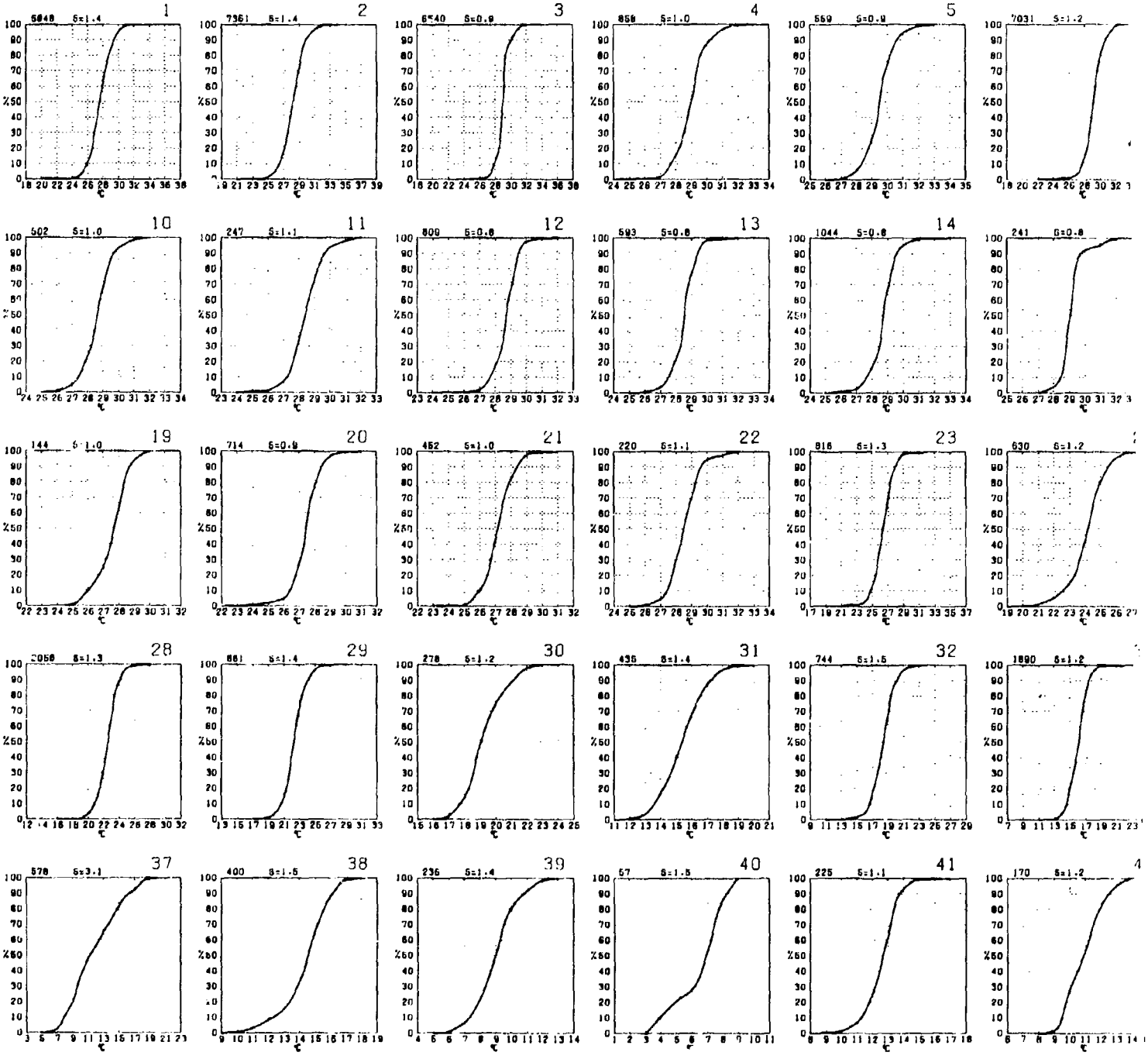
MAY



SEA SURFACE TEMPERATURE

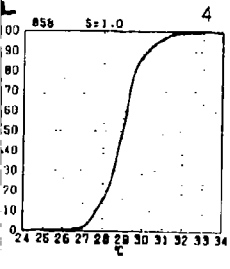


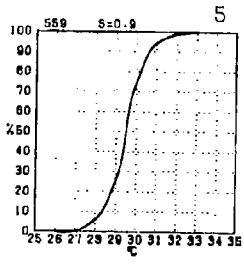
SEA SURFACE TEMPERATURE

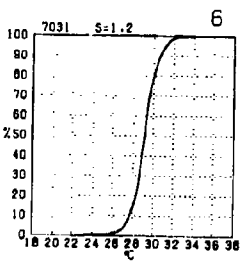


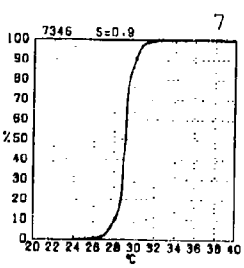
Graphs represent the objective co[illegible]lation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

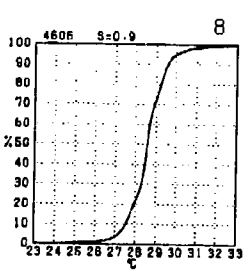
MAY

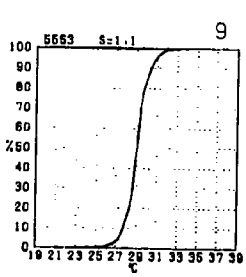


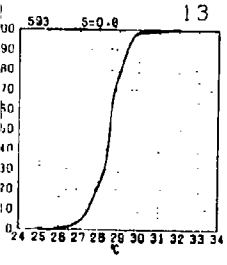


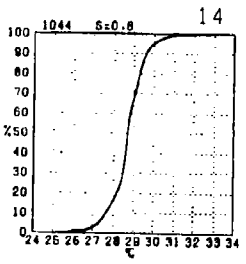


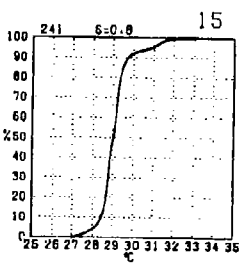


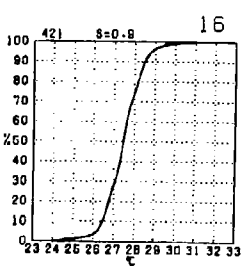


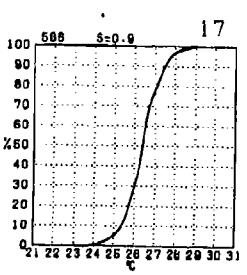


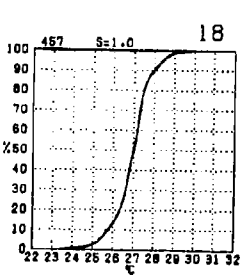


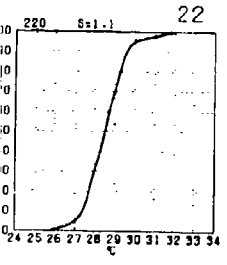


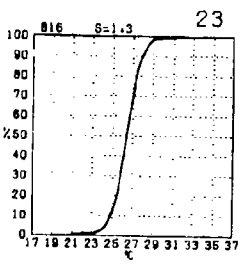


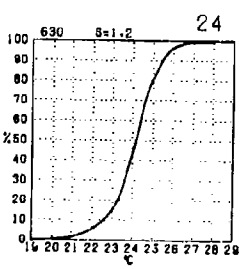


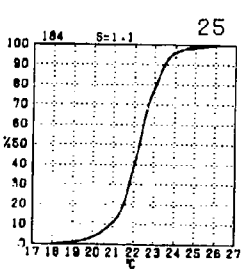


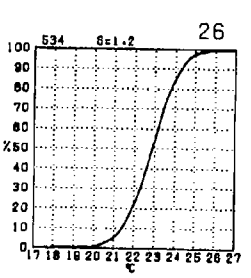


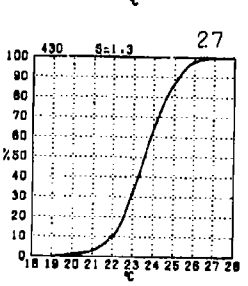


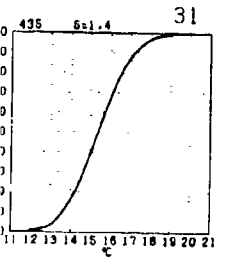


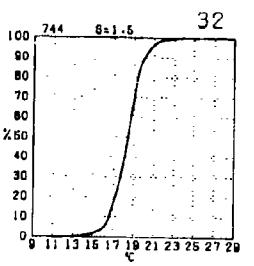


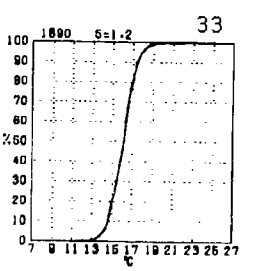


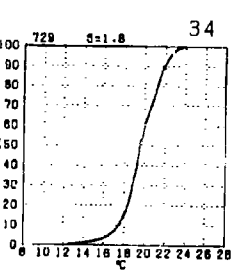


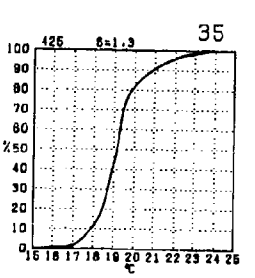


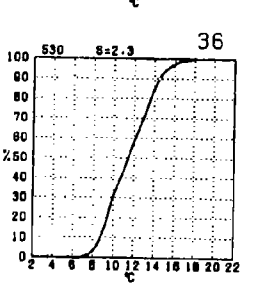


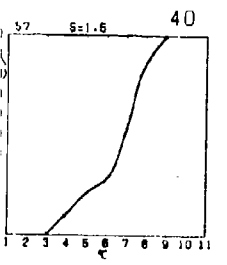


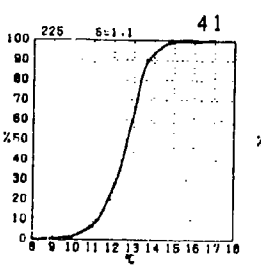


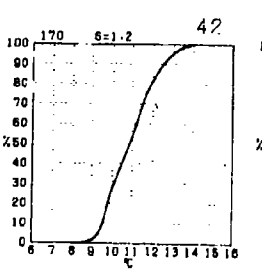


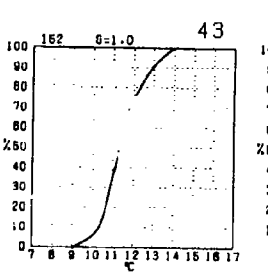


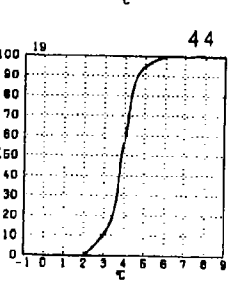










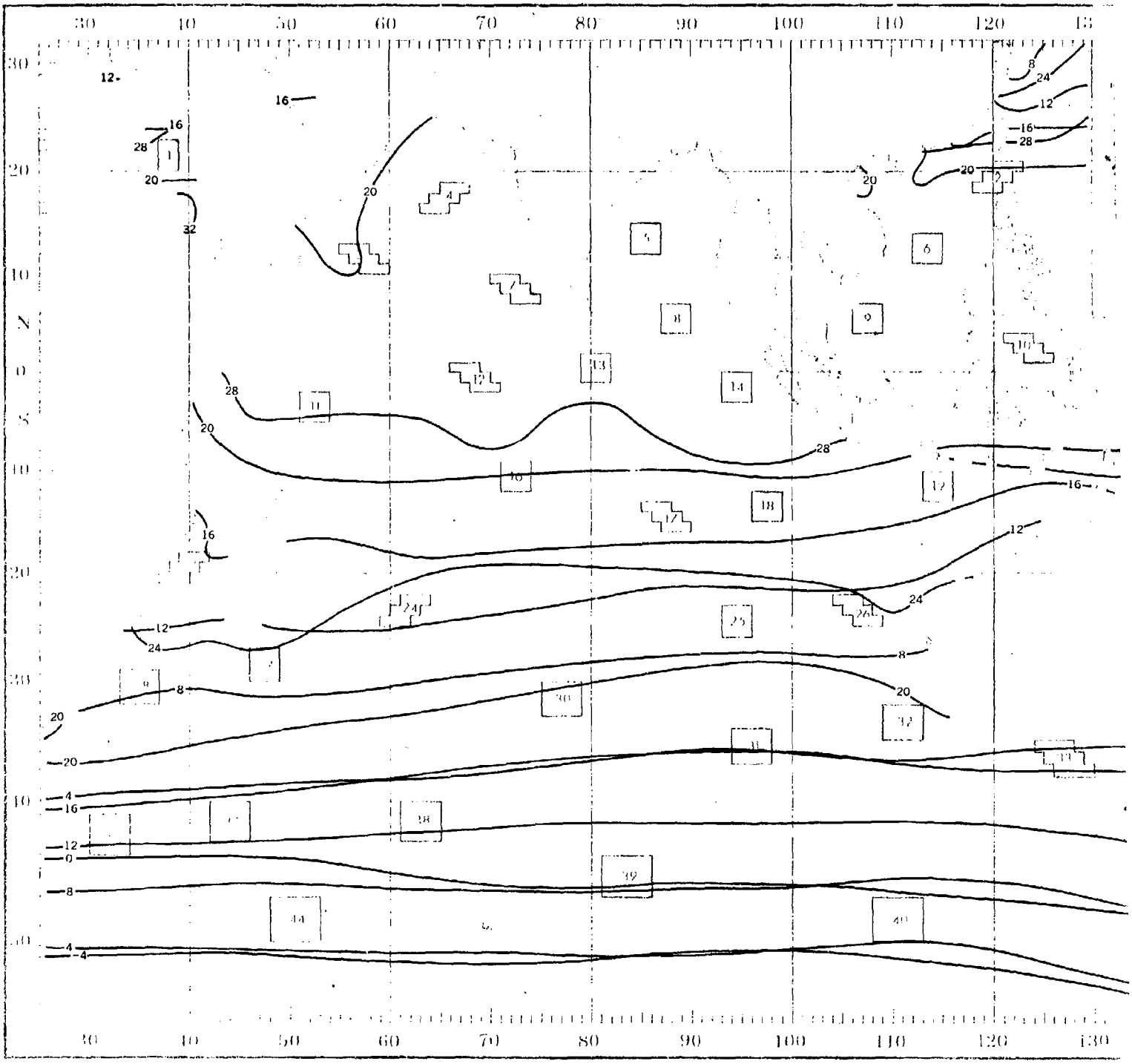


45

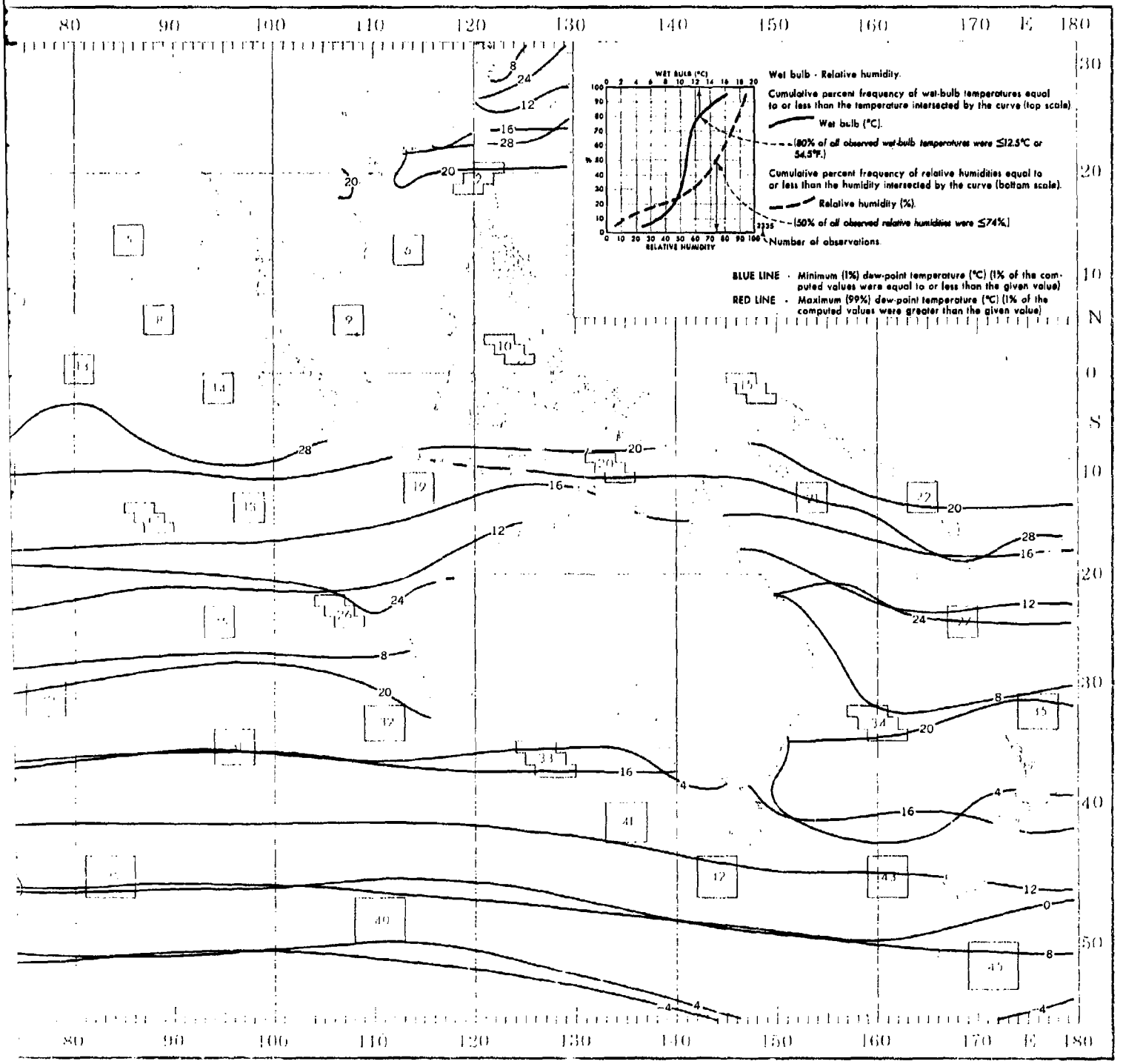
INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

MAY



HUMIDITY


80
90
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130
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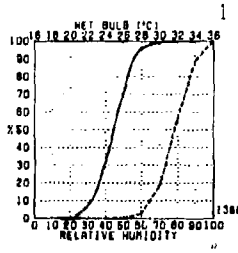
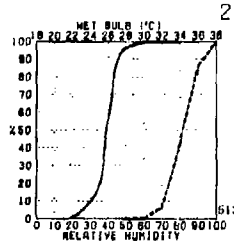
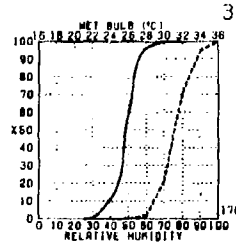
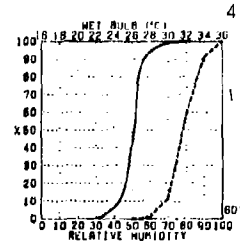
30
40
50
WET BULB (°C)
RELATIVE HUMIDITY
%
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%).
(50% of all observed relative humidities were ≤74%.)
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

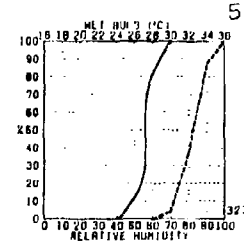
WET BULB AND RELATIVE HUMIDITY

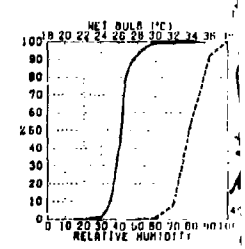


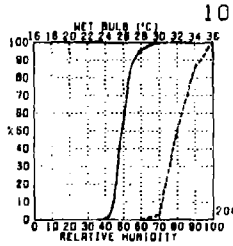


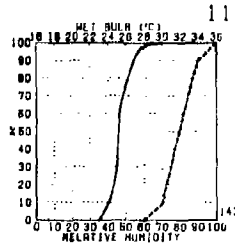


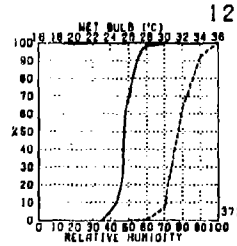


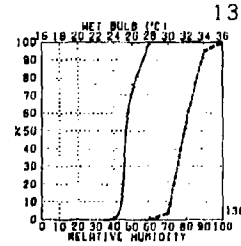


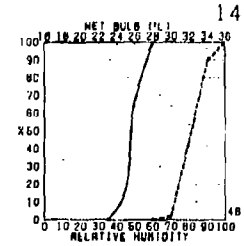


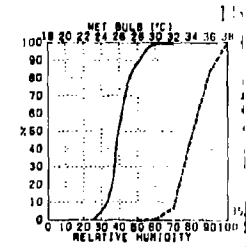


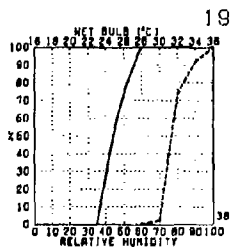


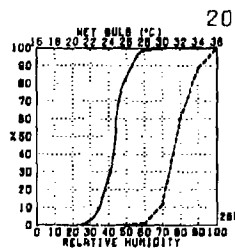


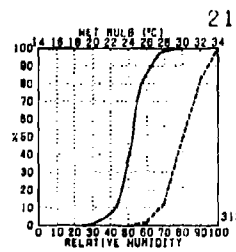


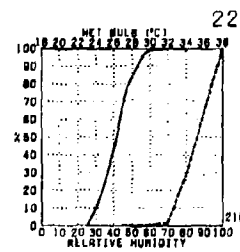


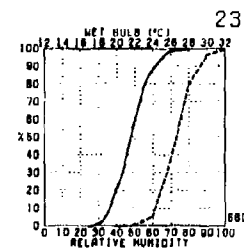


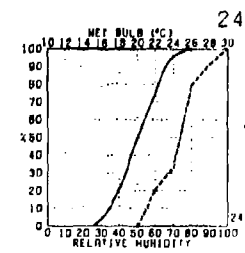


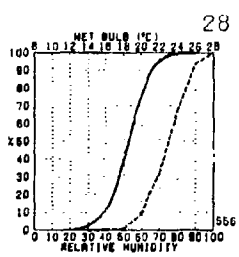


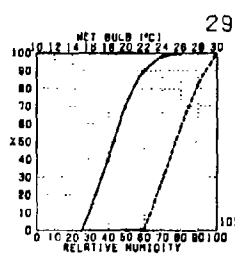


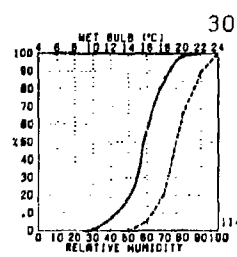


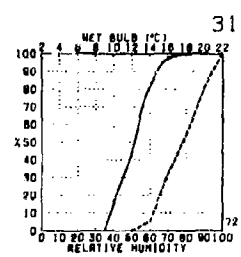


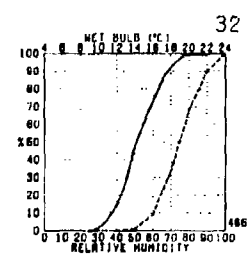


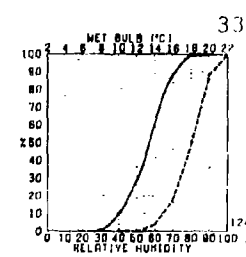


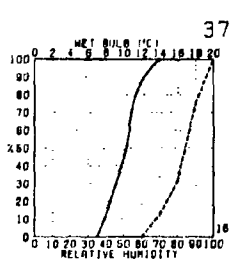


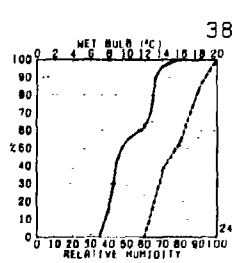


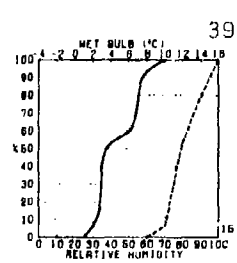












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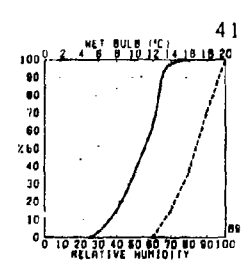
INSUFFICIENT DATA



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INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

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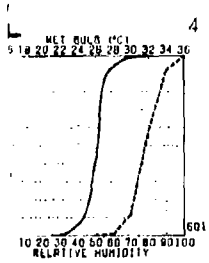

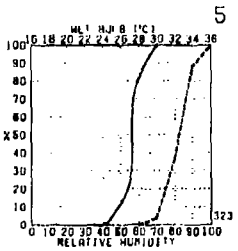

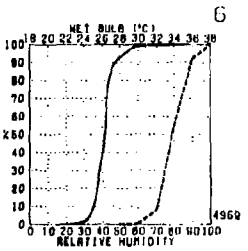

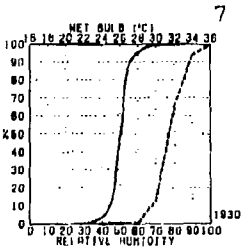

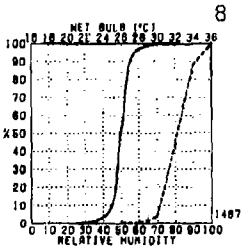

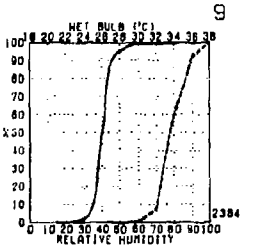

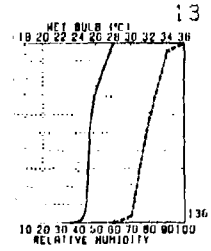

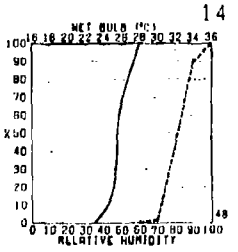

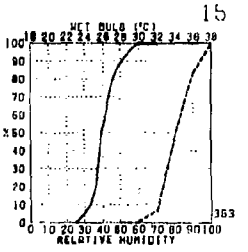

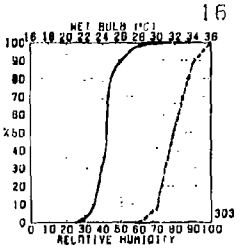

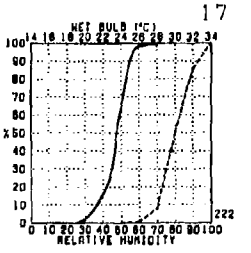

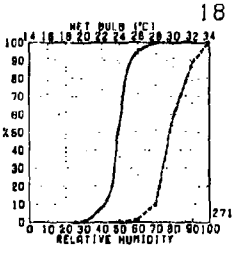

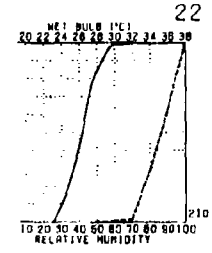

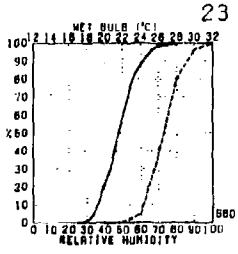

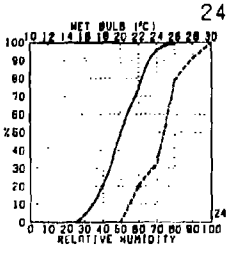

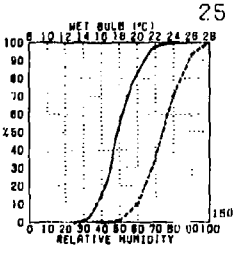

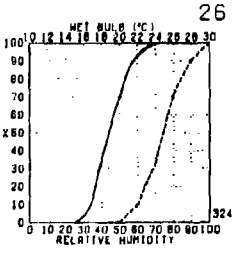

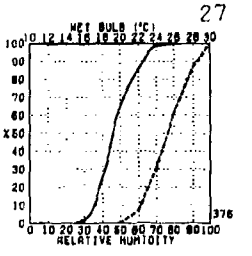

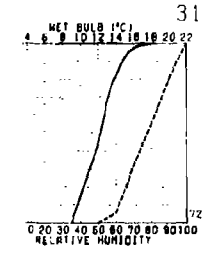

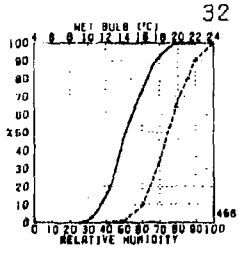

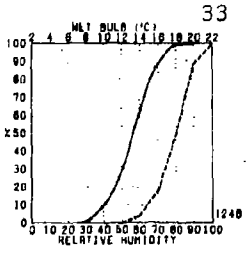

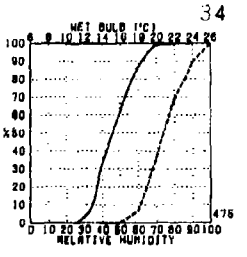

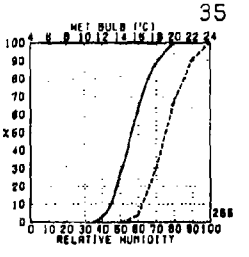

36

INSUFFICIENT DATA

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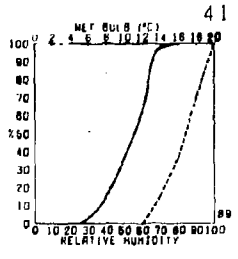
SUFFICIENT DATA



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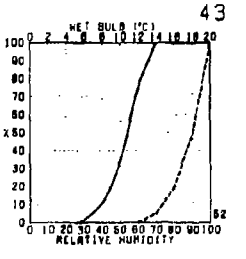
INSUFFICIENT DATA



44

INSUFFICIENT DATA

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INSUFFICIENT DATA

re compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

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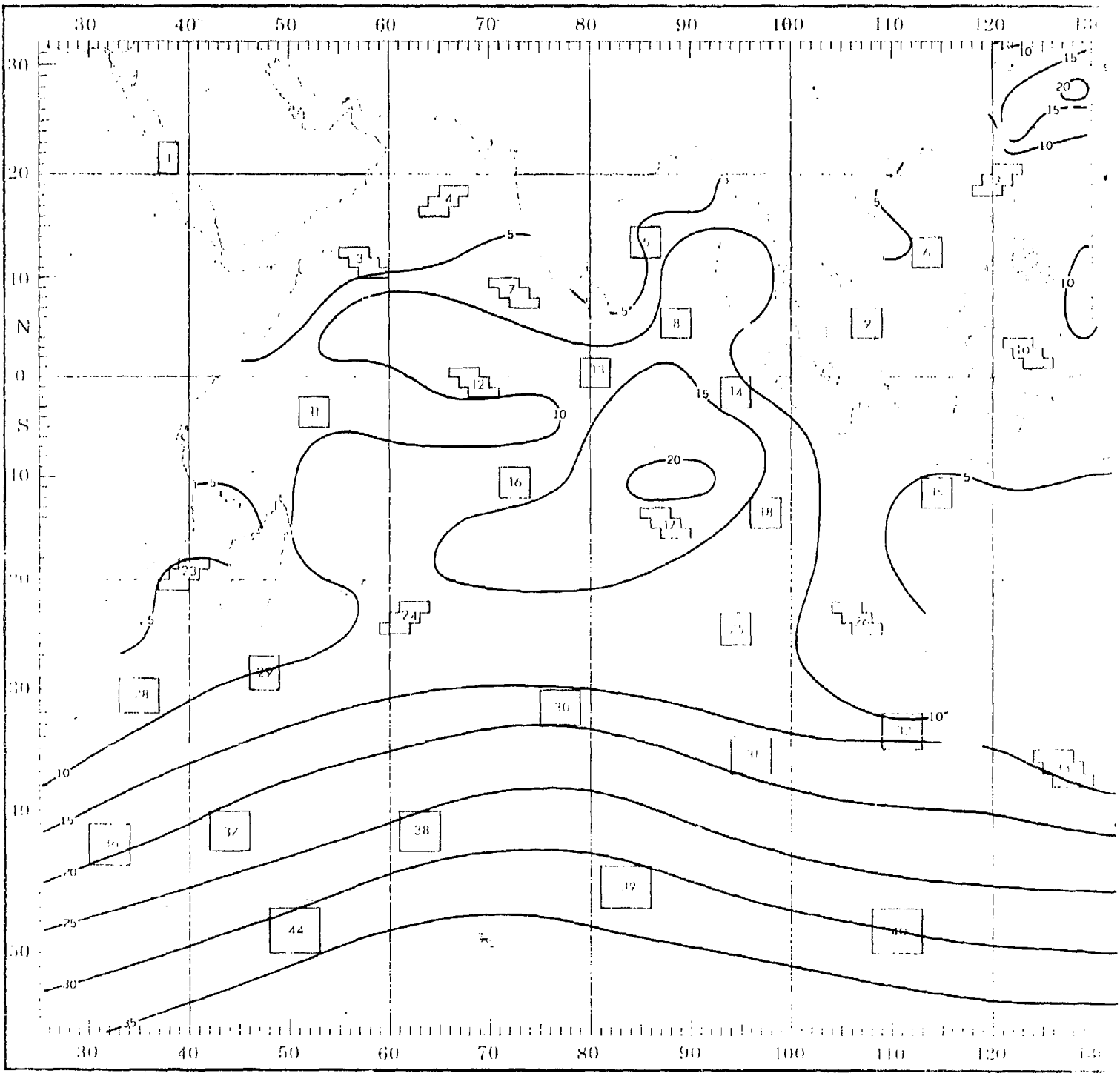
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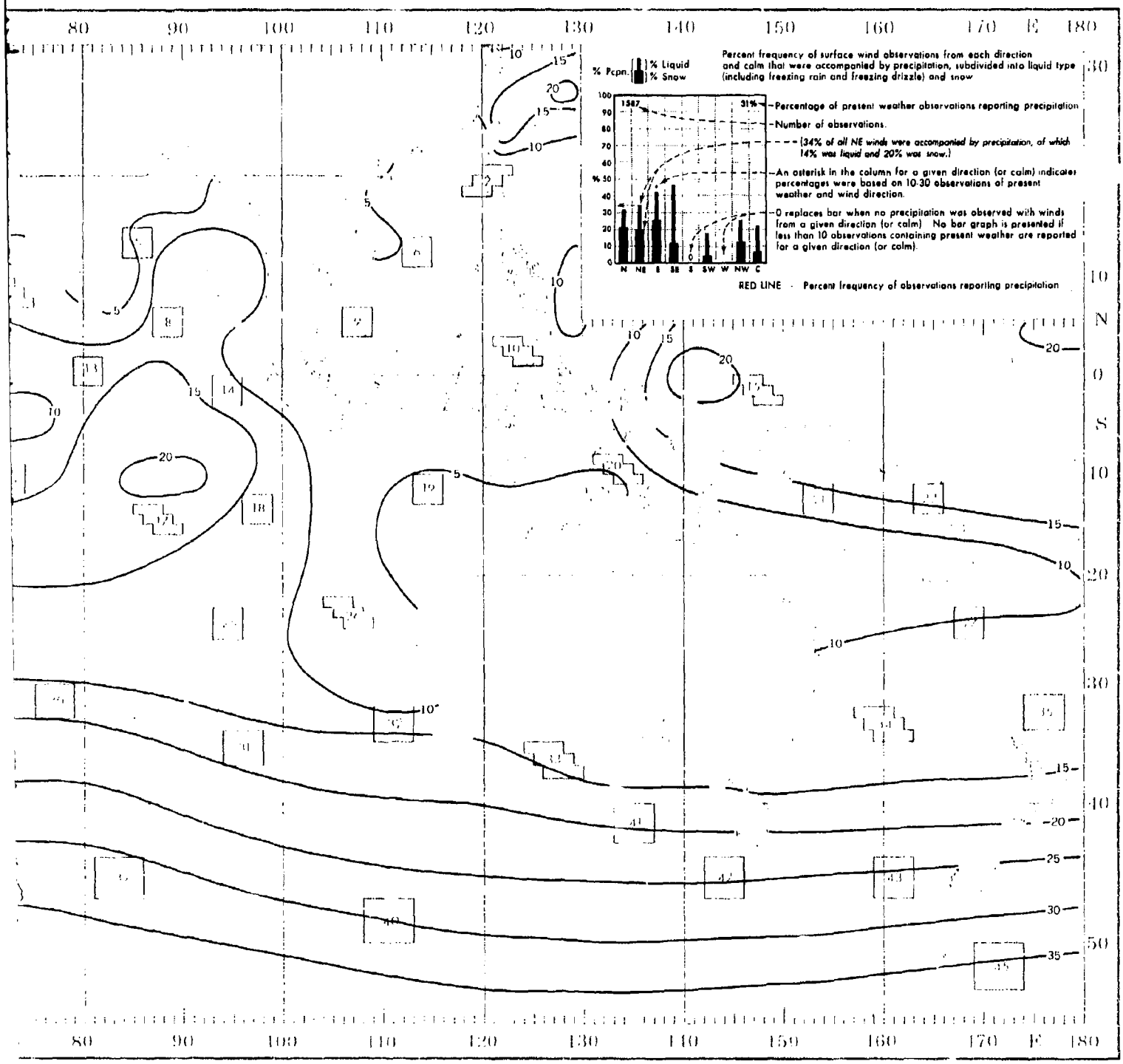
PRECIPITATION



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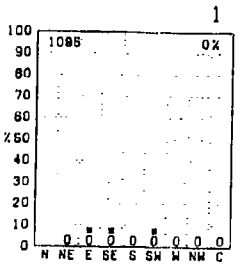
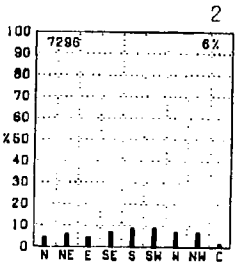
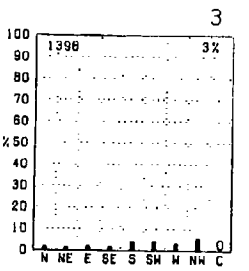
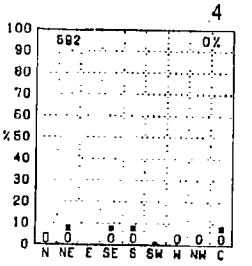
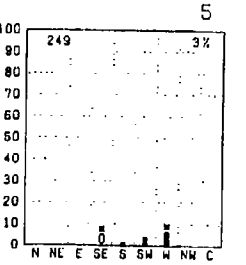
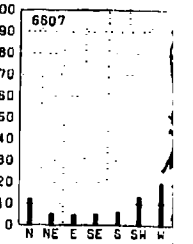


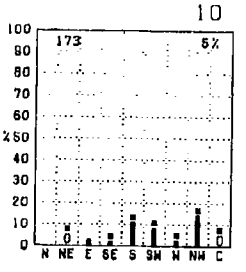


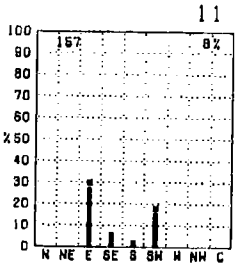


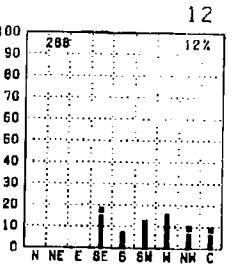


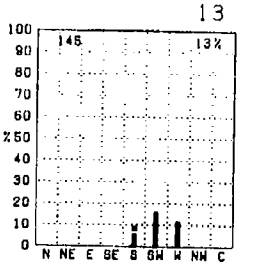






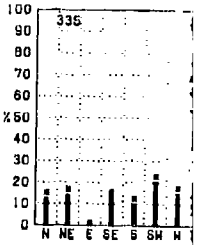


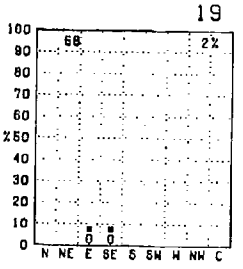


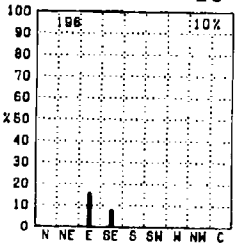


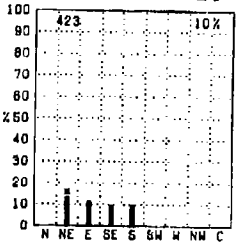
14

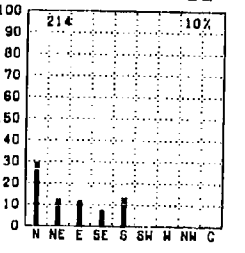
INSUFFICIENT DATA

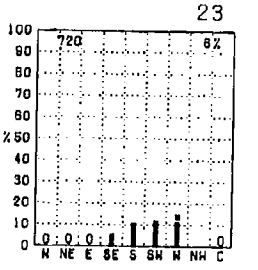












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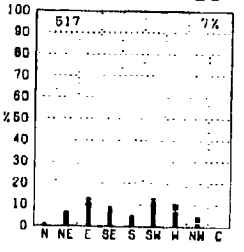

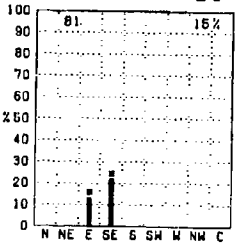

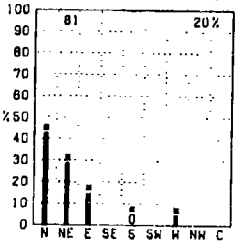

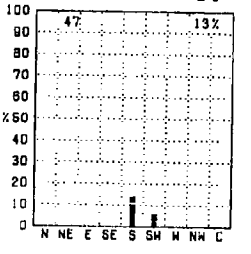

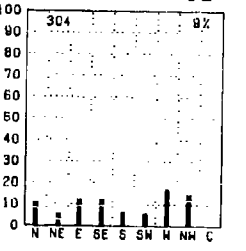

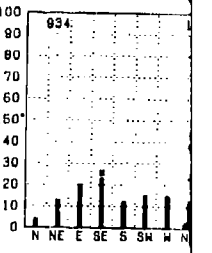

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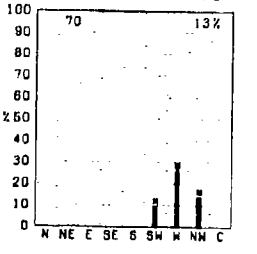

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Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

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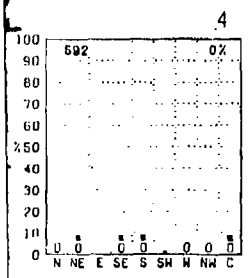

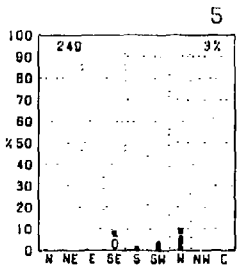

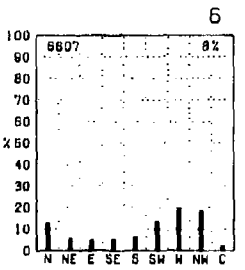

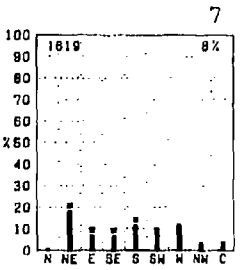

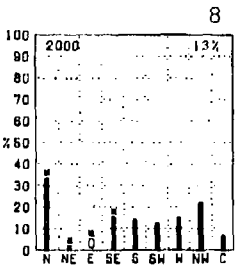

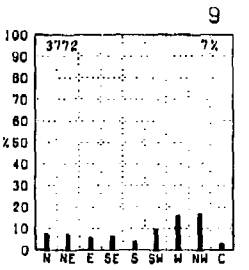

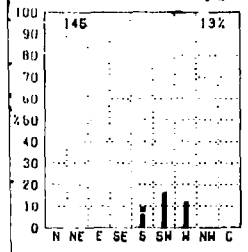

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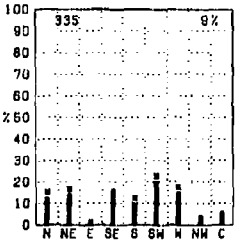

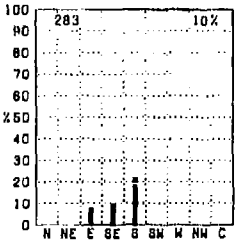

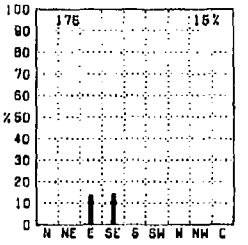

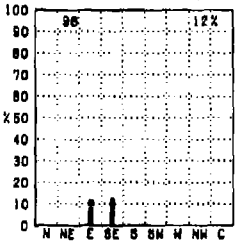

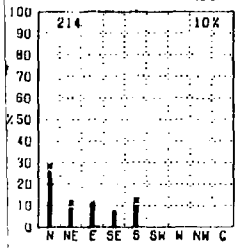

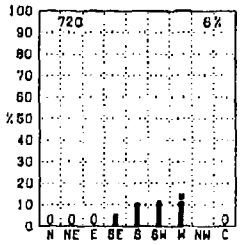

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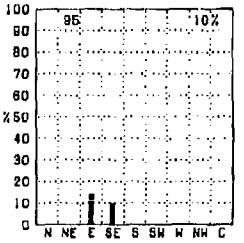

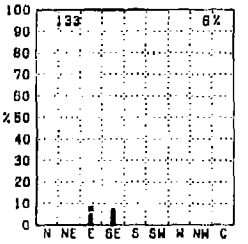

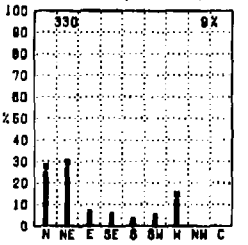

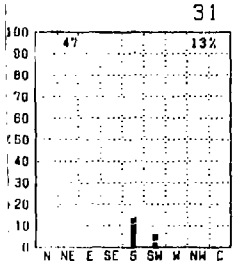

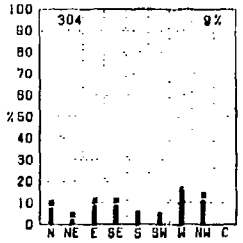

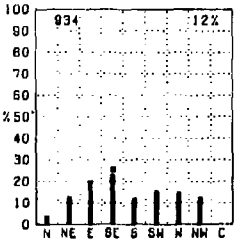

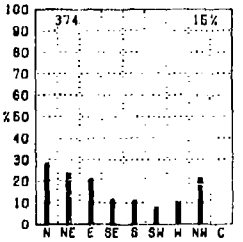

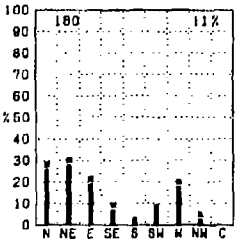

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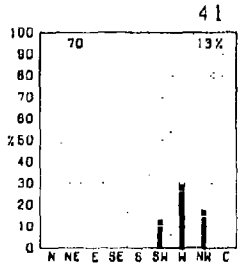

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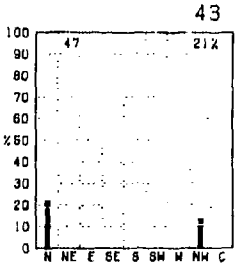

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INSUFFICIENT DATA

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ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

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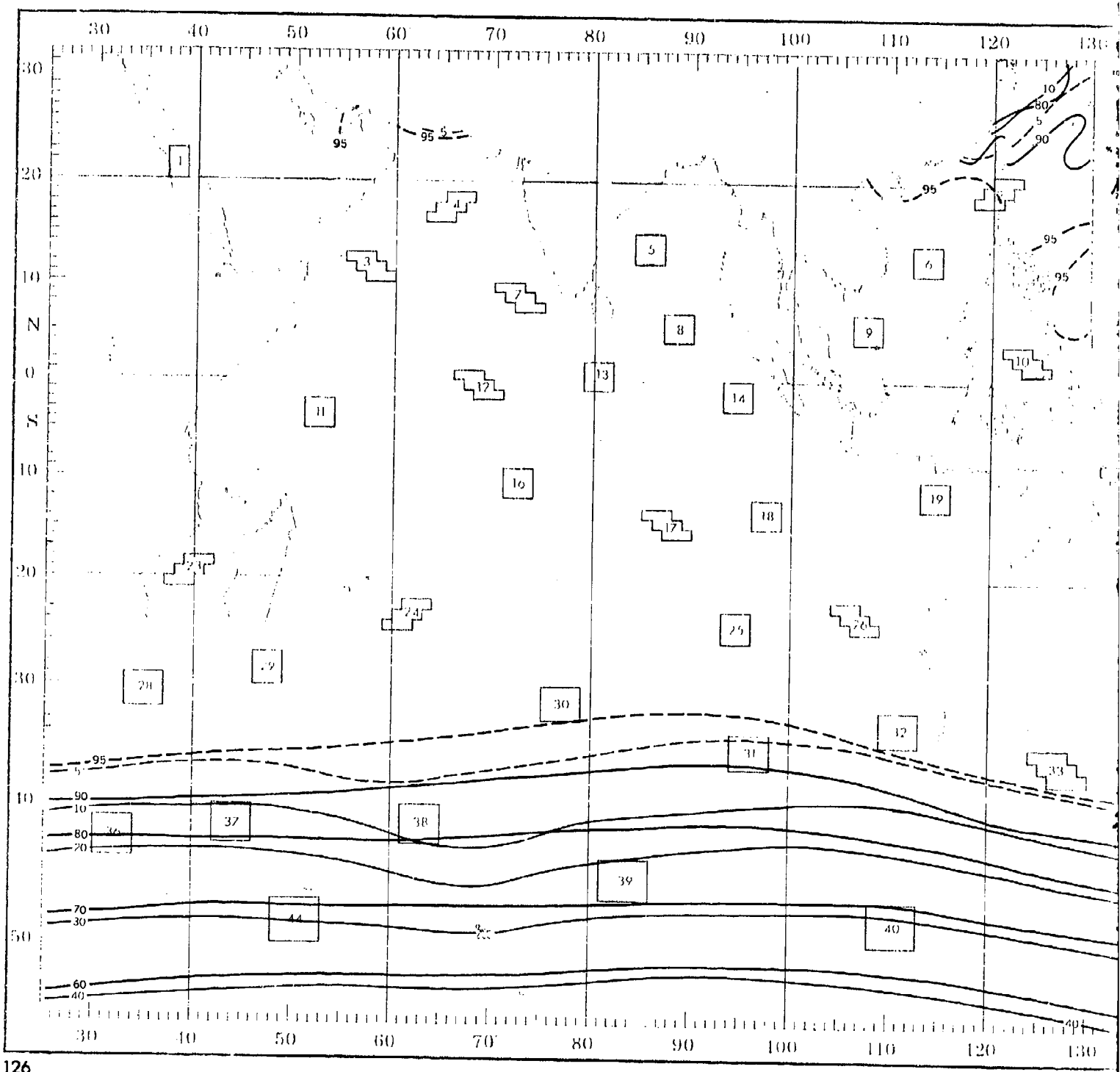
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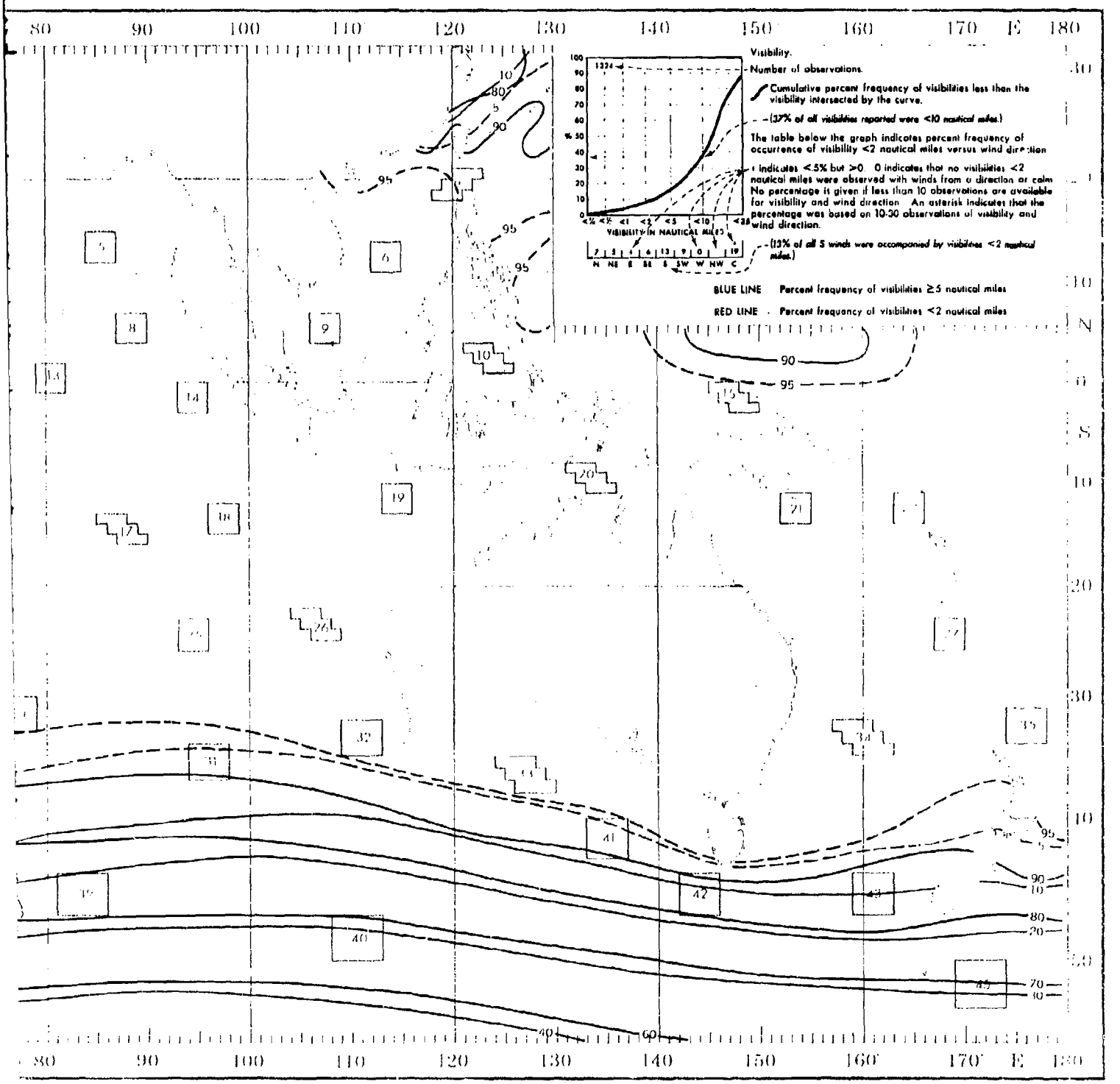
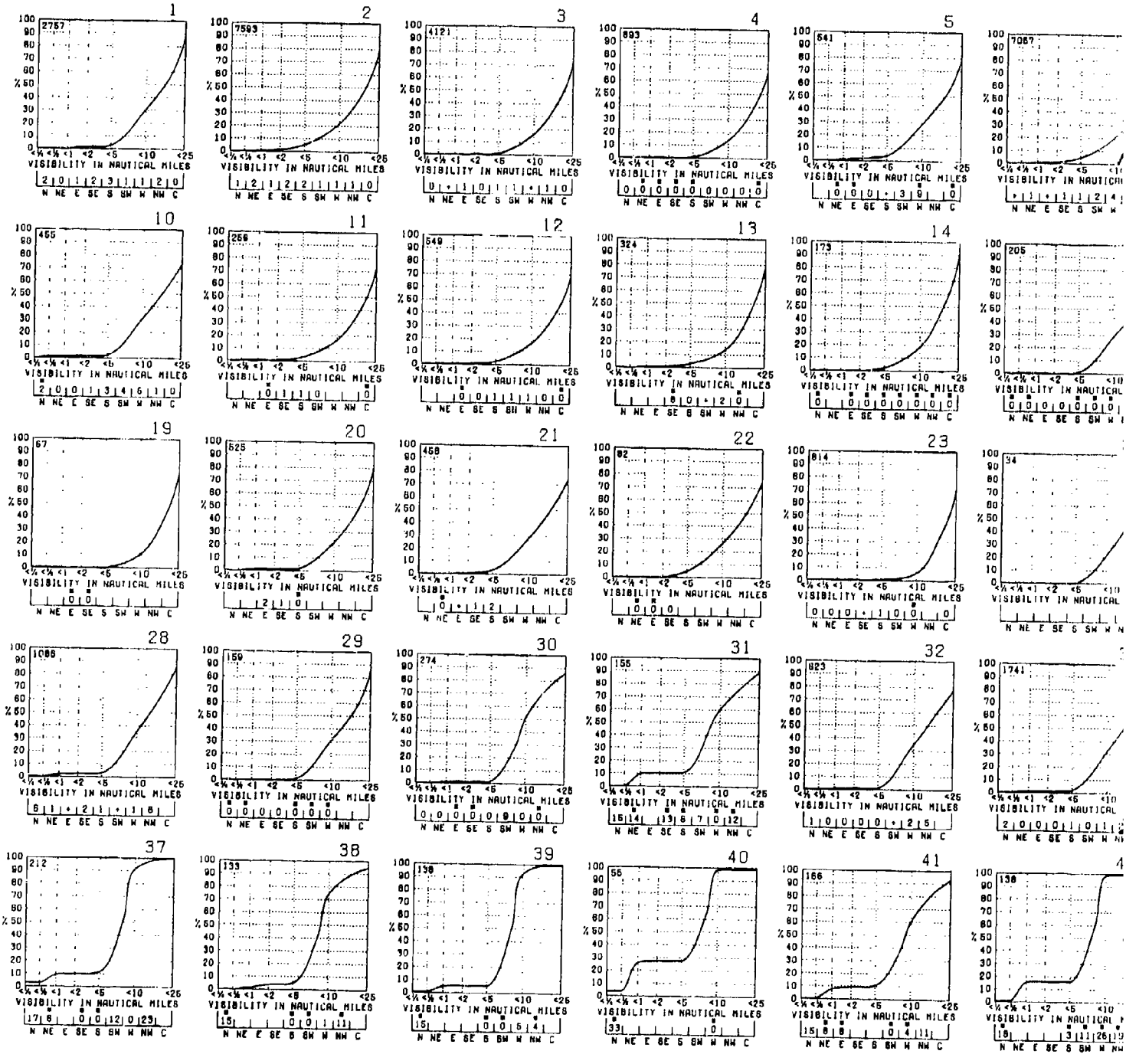
VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction
1 indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE Percent frequency of visibilities ≥5 nautical miles
RED LINE Percent frequency of visibilities <2 nautical miles
80 90 100 110 120 130 140 150 160 170 E 180
30 N 10 S 10 20 30 10 20 30

VISIBILITY



Graphs represent the objective compilation of available data for specified areas withou
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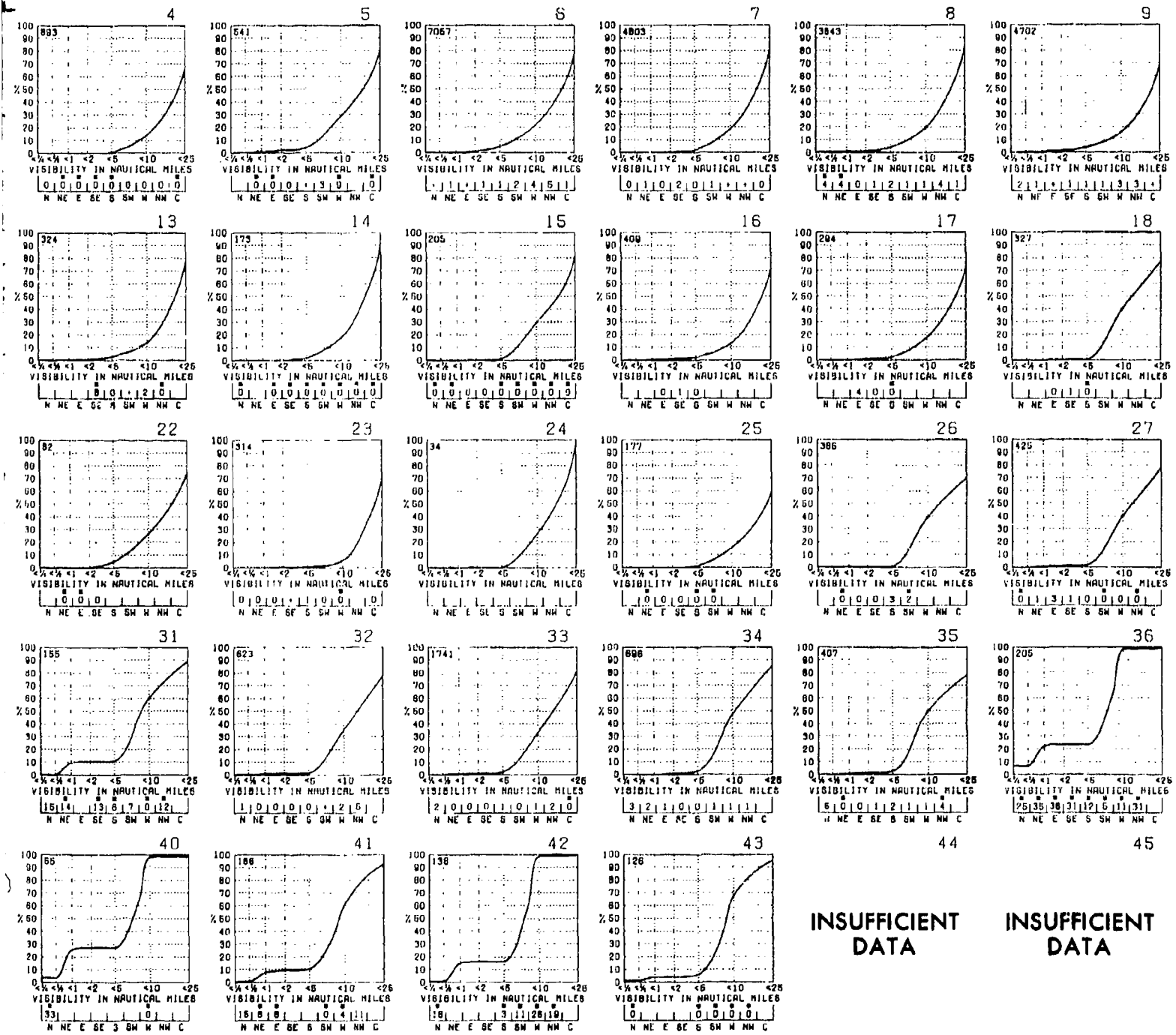

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INSUFFICIENT DATA

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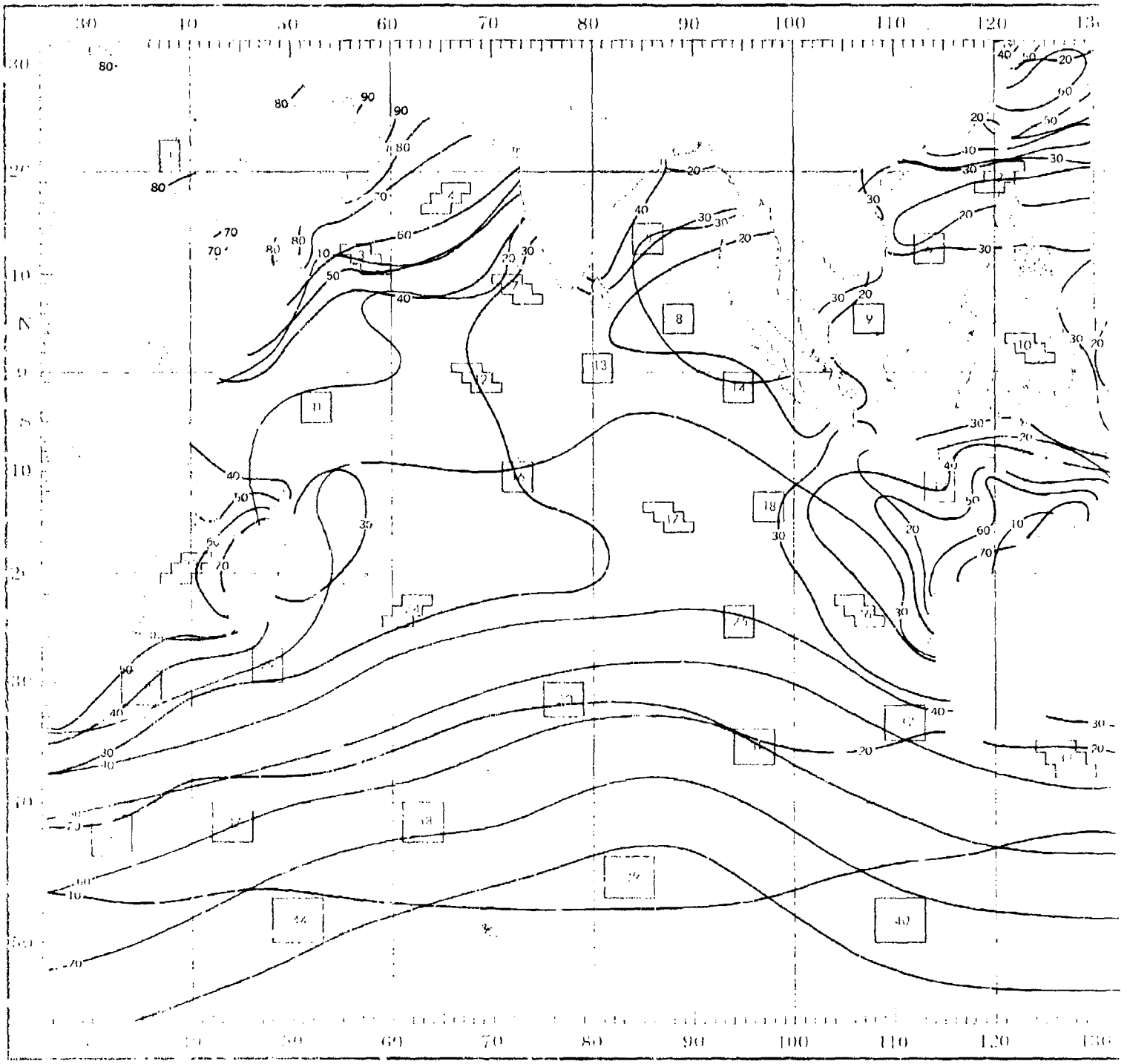
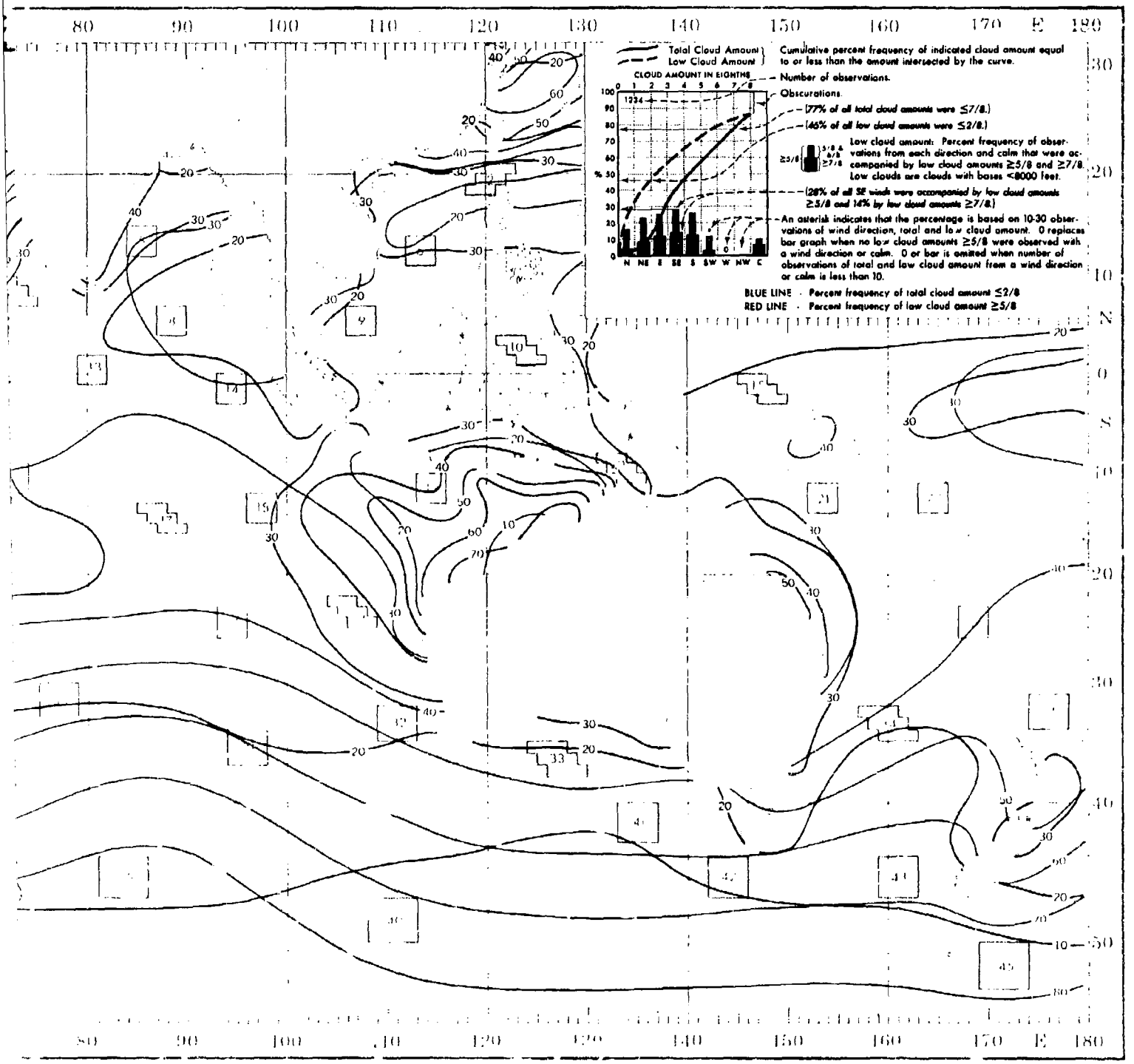
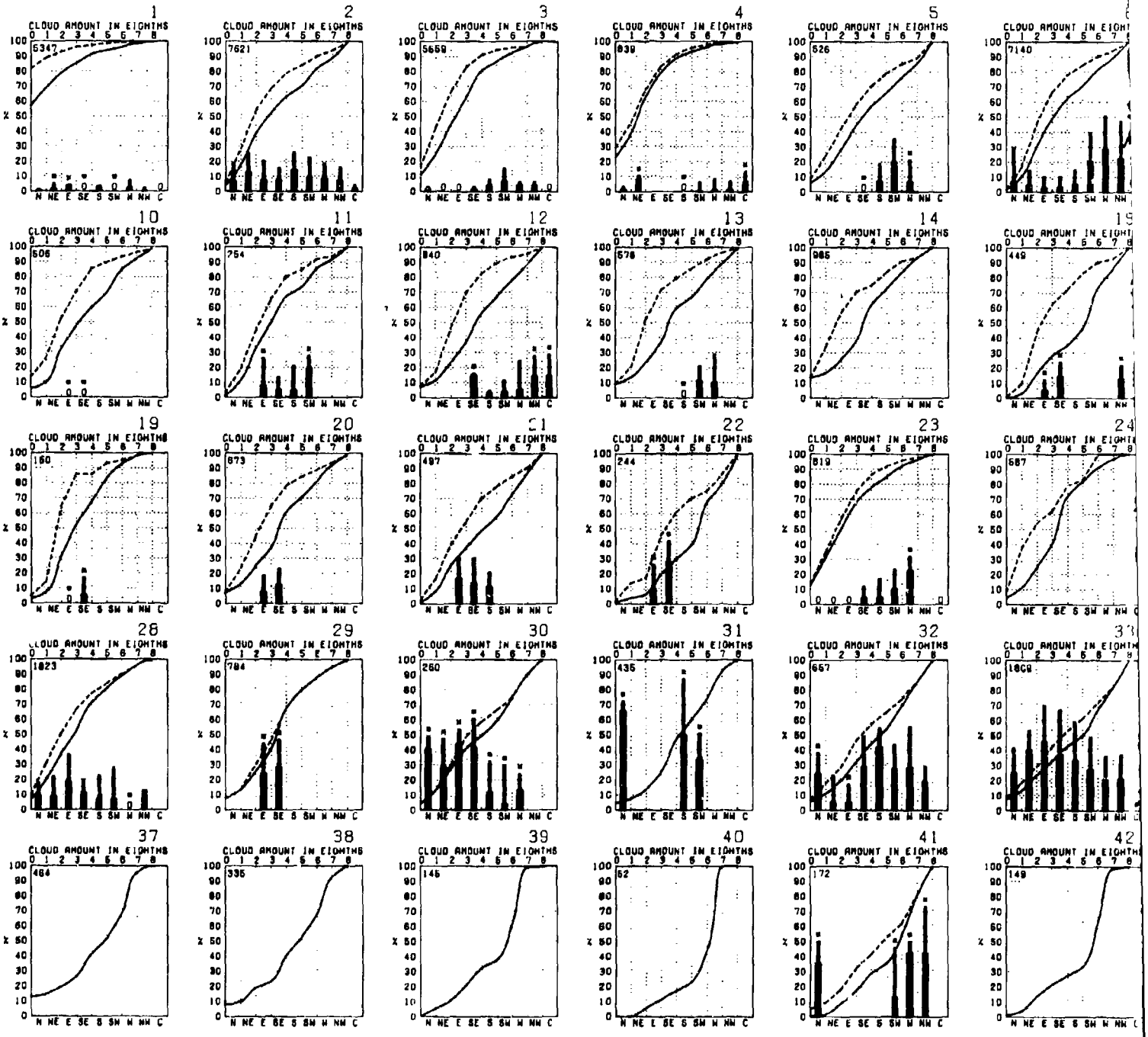


CLOUD COVER


Total Cloud Amount
Low Cloud Amount
CLOUD AMOUNT IN EIGHTHS
0 1 2 3 4 5 6 7 8
1234
N NE E SE S SW W NW C
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5/8
5/8 & 6/8
≥7/8
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



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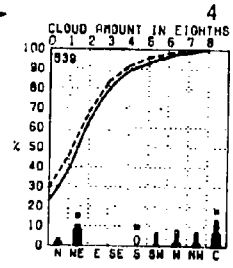
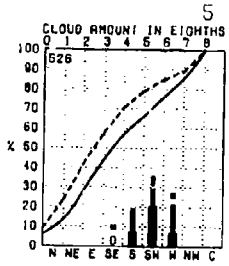
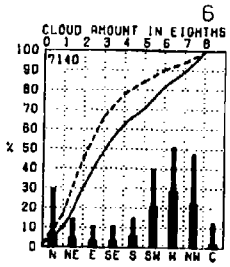
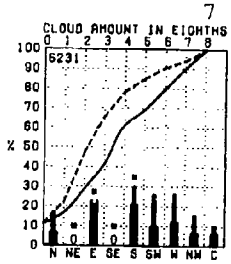
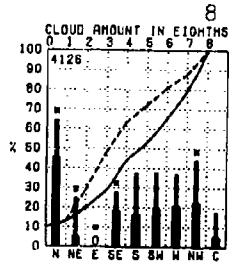
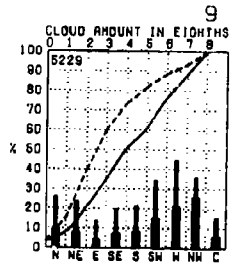


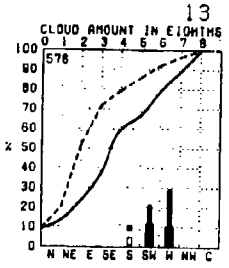


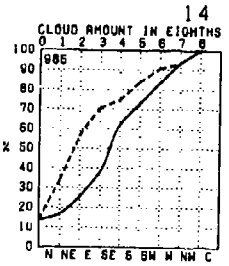


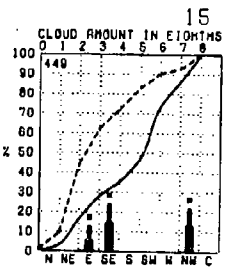


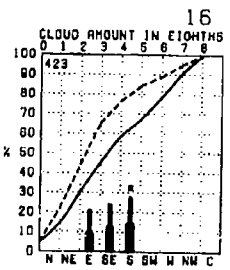


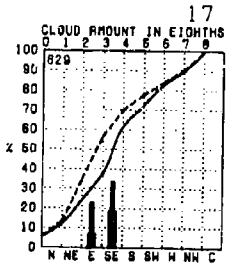


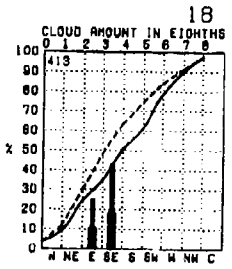


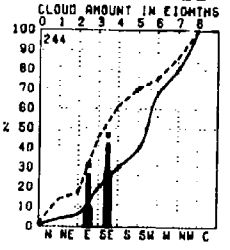


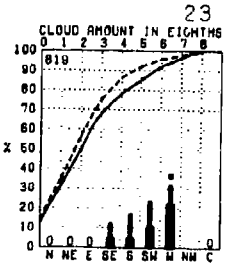


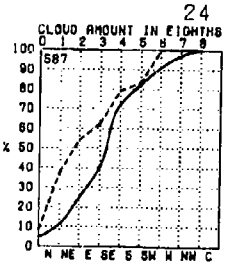


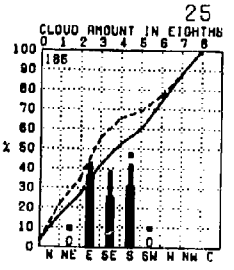


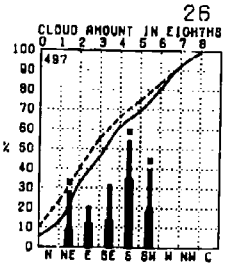


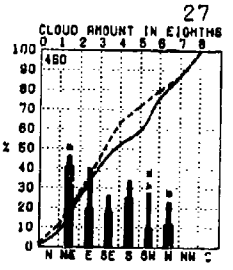


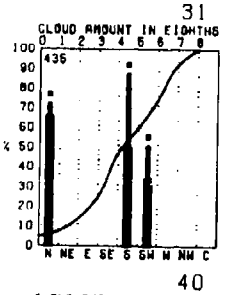


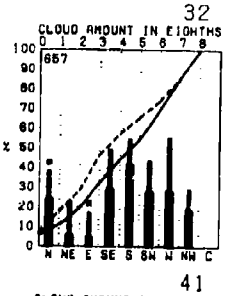


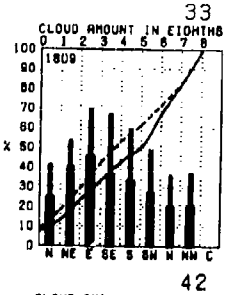


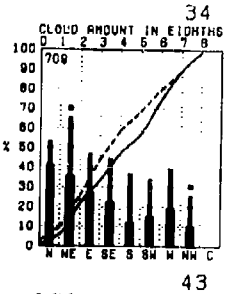


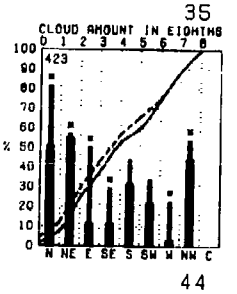


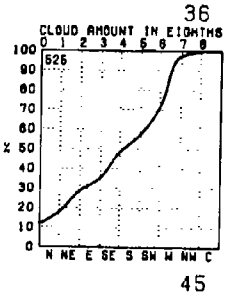


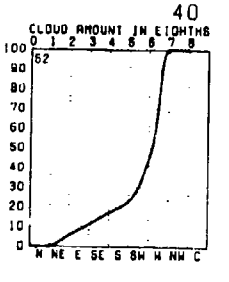


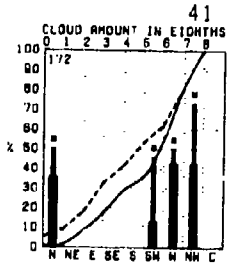


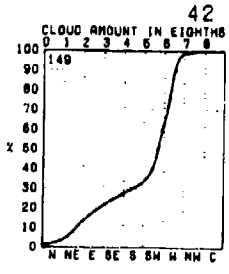


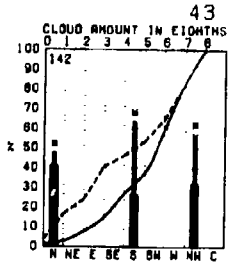












44

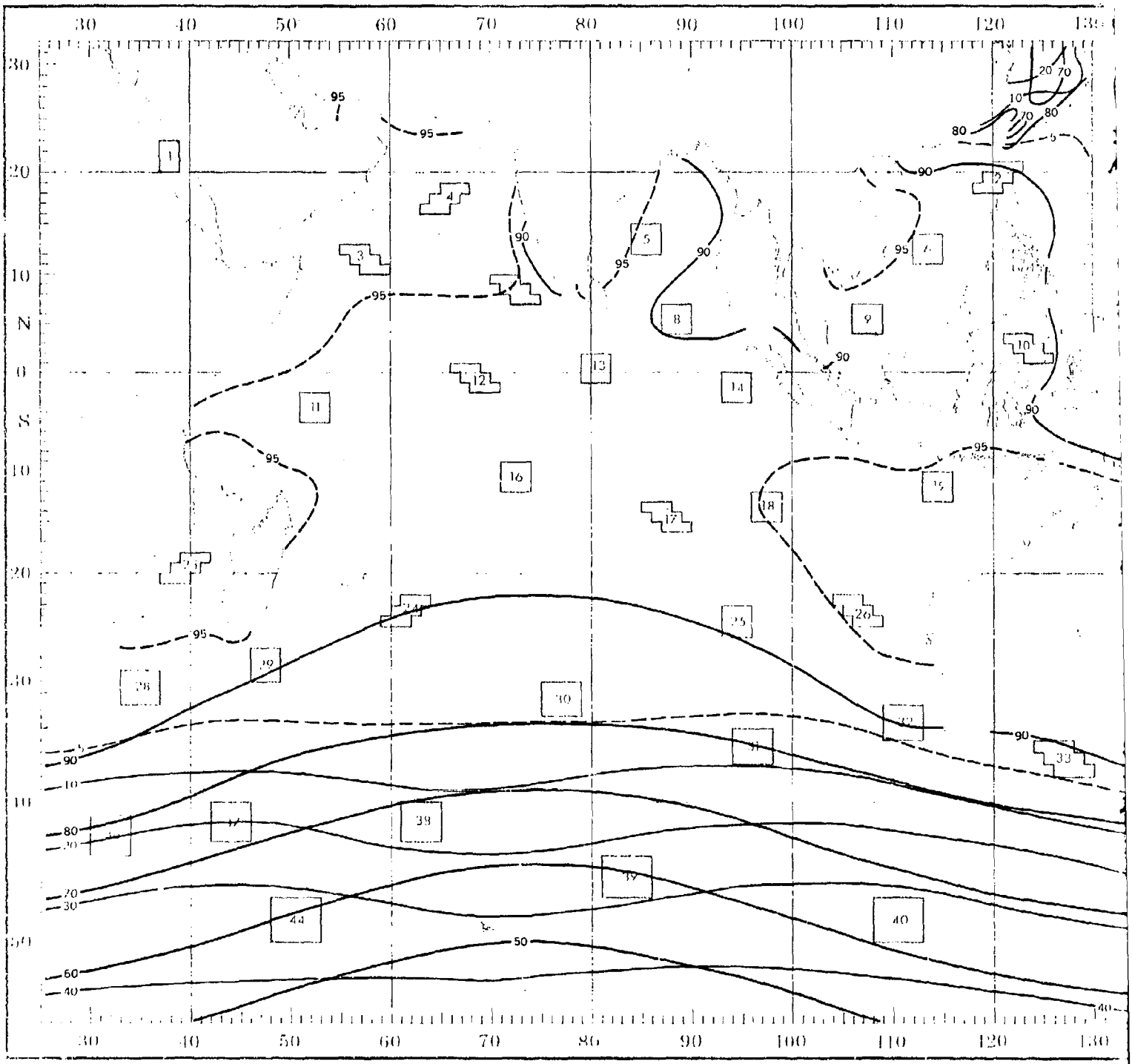
INSUFFICIENT DATA

45

INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

MAY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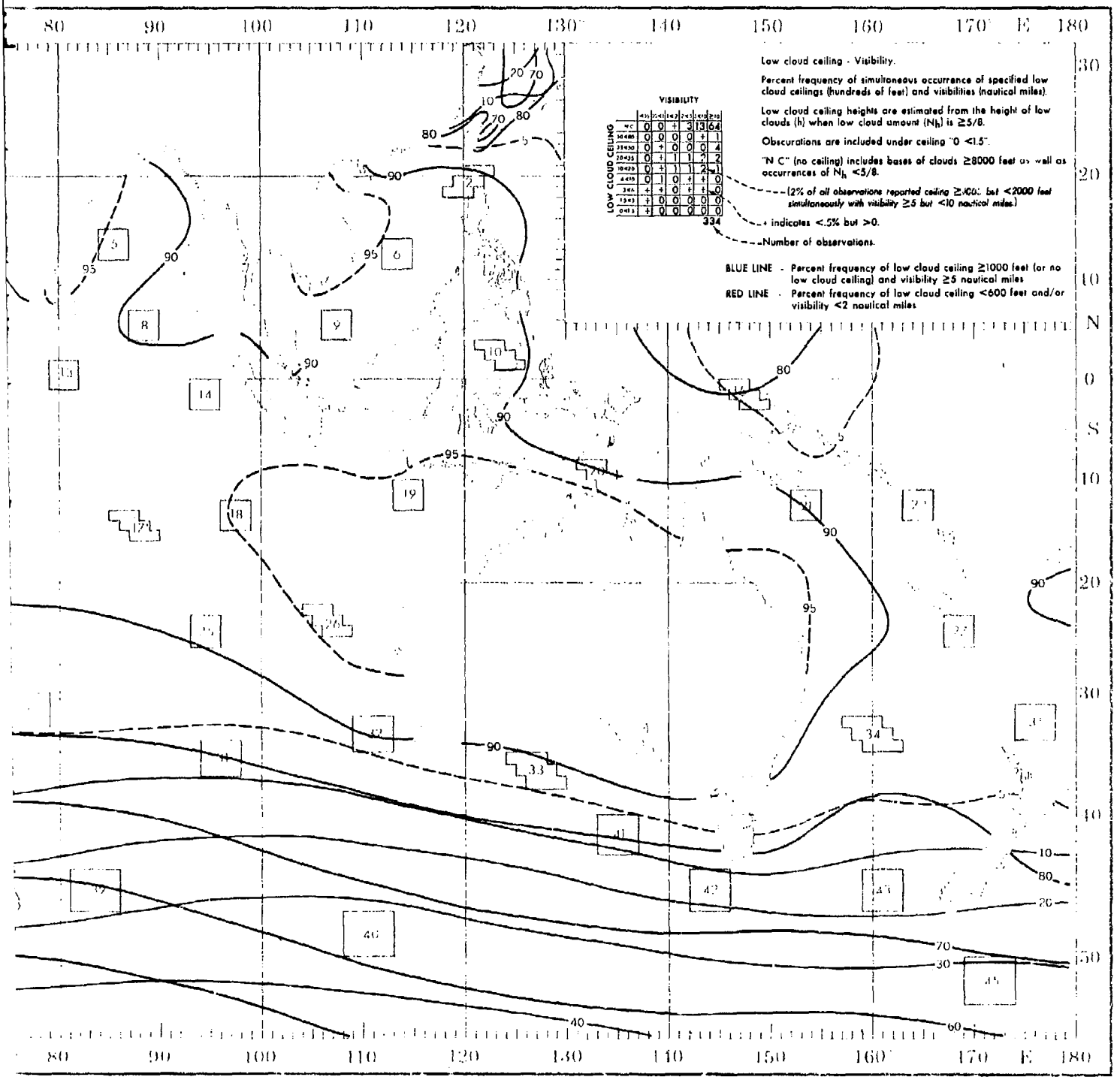
CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	2	15	81
50-<80	0	0	0	0	0	+
35-<50	0	0	0	0	+	+
20-<35	0	0	0	0	0	+
10-<20	0	0	0	0	+	+
5-<10	0	0	0	+	+	+
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	+	0	0	0

1085

2

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	10	88
50-<80	0	0	0	0	+	+
35-<50	0	0	0	+	+	+
20-<35	0	0	+	+	1	2
10-<20	+	+	+	1	3	5
5-<10	+	+	+	1	2	2
3-<5	+	+	+	+	1	+
1-<3	+	+	+	+	+	0
0-<1	+	+	+	+	+	+

6402

3

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	0	1	4	87
50-<80	0	0	0	+	0	+
35-<50	0	0	0	0	+	+
20-<35	0	0	0	+	1	2
10-<20	0	0	0	+	1	2
5-<10	0	0	+	0	+	1
3-<5	0	0	0	+	+	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

1414

4

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	7	85
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	+	1
20-<35	0	0	0	0	+	2
10-<20	0	0	0	0	+	3
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

602

5

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	63
50-<80	0	0	0	0	0	+
35-<50	0	0	0	+	1	2
20-<35	0	0	0	1	1	5
10-<20	0	0	0	0	2	12
5-<10	0	0	0	0	1	4
3-<5	0	0	0	+	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

249

6

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	1	9	
50-<80	0	0	0	0	0	
35-<50	0	0	0	+	+	
20-<35	0	0	+	+	1	
10-<20	+	+	+	1		
5-<10	+	+	+	1		
3-<5	+	+	+	+	1	
1-<3	+	+	+	+	+	
0-<1	+	+	+	+	+	

10

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	89
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	5
10-<20	0	0	0	0	0	6
5-<10	0	0	0	0	0	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

83

11

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	75
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	2	2
10-<20	0	0	0	1	1	8
5-<10	1	0	0	0	1	5
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

132

12

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	91
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	3
20-<35	0	0	0	0	0	1
10-<20	0	0	0	0	1	7
5-<10	0	0	0	+	+	1
3-<5	+	0	0	0	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

295

13

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	6	71
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	1	5
10-<20	0	0	0	1	1	5
5-<10	0	0	0	1	1	6
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

133

14

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	76
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	2	5	9
10-<20	0	0	0	0	0	0
5-<10	0	0	0	0	2	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

44

1

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	
50-<80	0	0	0	0	0	
35-<50	0	0	0	0	0	
20-<35	0	0	0	0	0	
10-<20	0	0	0	2	3	
5-<10	0	0	0	0	0	
3-<5	0	0	0	0	0	
1-<3	0	0	0	0	0	
0-<1	0	0	0	0	0	

19

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	86
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	3	0
20-<35	0	0	0	0	0	3
10-<20	0	0	0	0	0	3
5-<10	0	0	0	0	3	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

36

20

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	78
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	0	6
10-<20	0	0	0	0	2	6
5-<10	0	0	0	0	2	3
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

188

21

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	7	83
50-<80	0	0	0	0	0	+
35-<50	0	0	0	0	0	+
20-<35	0	0	0	0	0	3
10-<20	0	0	0	+	4	6
5-<10	0	0	0	1	6	5
3-<5	0	0	0	+	1	+
1-<3	0	0	0	0	1	0
0-<1	0	0	0	+	0	0

256

22

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	66
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	4
20-<35	0	0	0	0	0	7
10-<20	0	0	0	0	2	11
5-<10	0	0	0	2	2	9
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

55

23

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	86
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	+	3
10-<20	0	0	0	0	1	6
5-<10	0	0	0	+	0	1
3-<5	0	0	0	+	0	0
1-<3	0	0	0	0	0	0
0-<1	+	0	0	0	+	0

671

2

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	
50-<80	0	0	0	0	0	
35-<50	0	0	0	0	0	
20-<35	0	0	0	0	0	
10-<20	0	0	0	0	0	
5-<10	0	0	0	0	0	
3-<5	0	0	0	0	0	
1-<3	0	0	0	0	0	
0-<1	0	0	0	0	0	

28

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	4	73
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	1	1	6
10-<20	0	0	0	0	1	9
5-<10	0	0	+	+	1	2
3-<5	0	0	0	0	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

513

29

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	60
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	0	5
10-<20	0	0	0	0	1	17
5-<10	0	0	0	1	6	4
3-<5	0	0	0	0	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

77

30

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	68
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	1
20-<35	0	0	0	0	3	7
10-<20	0	0	0	0	1	18
5-<10	0	0	0	0	3	1
3-<5	0	0	0	1	1	0
1-<3	0	0	0	0	0	1
0-<1	0	0	0	0	0	0

91

31

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	28
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	2	11
20-<35	0	0	0	0	5	28
10-<20	0	0	0	0	2	8
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

61

32

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	-	3	84
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	5
20-<35	0	0	0	0	1	12
10-<20	0	0	0	0	2	13
5-<10	0	0	+	+	1	5
3-<5	0	0	0	+	1	0
1-<3	0	0	0	0	+	0
0-<1	0	0	0	0	0	0

338

3

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	3	
50-<80	0	0	0	0	+	
35-<50	0	0	0	+	1	
20-<35	0	0	0	1	1	
10-<20	0	0	0	1	3	
5-<10	0	0	0	+	2	
3-<5	0	0	0	+	+	
1-<3	0	0	0	0	0	
0-<1	0	0	0	0	0	

98

37

INSUFFICIENT DATA

38

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	21
50-<80	0	0	0	0	0	18
35-<50	0	0	0	0	0	18
20-<35	0	0	0	0	0	21
10-<20	0	0	0	0	5	0
5-<10	0	0	0	0	0	21
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

19

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

VISIBILITY

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	37
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	7
20-<35	0	0	0	0	3	10
10-<20	0	0	0	0	4	19
5-<10	0	0	0	0	3	5
3-<5	0	0	0	0	3	3
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

73

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

MAY

4

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	7	85
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	+	1
20-<35	0	0	0	0	+	2
10-<20	0	0	0	0	+	3
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

602

5

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	63
50-<80	0	0	0	0	0	+
35-<50	0	0	0	+	1	2
20-<35	0	0	0	1	1	5
10-<20	0	0	0	0	2	12
5-<10	0	0	0	0	1	4
3-<5	0	0	0	+	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

249

6

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	1	9	89
50-<80	0	0	0	0	0	+
35-<50	0	0	0	+	+	1
20-<35	0	0	+	+	1	2
10-<20	+	+	+	1	3	5
5-<10	+	+	+	1	2	2
3-<5	+	+	+	+	1	+
1-<3	+	+	+	+	+	+
0-<1	+	+	+	+	+	+

5812

7

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	75
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	+	2
20-<35	0	+	+	+	1	4
10-<20	0	0	0	+	1	6
5-<10	0	0	0	+	1	2
3-<5	0	0	+	+	+	+
1-<3	0	0	0	0	0	+
0-<1	0	0	0	0	0	+

1579

8

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	1	8	56
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	+	2
20-<35	+	0	0	+	1	5
10-<20	0	+	+	1	4	8
5-<10	0	+	+	1	3	8
3-<5	0	0	0	+	1	1
1-<3	0	0	0	+	0	+
0-<1	+	0	+	+	0	+

1481

9

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	7	66
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	+	1
20-<35	0	0	+	+	1	4
10-<20	0	+	+	1	2	7
5-<10	+	0	+	1	1	3
3-<5	+	0	+	+	1	+
1-<3	0	0	+	+	+	+
0-<1	+	+	+	+	+	+

2589

13

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	6	71
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	1	2
10-<20	0	0	0	1	1	5
5-<10	0	0	0	1	1	5
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

133

14

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	76
50-<80	0	0	0	0	0	5
35-<50	0	0	0	0	0	0
20-<35	0	0	0	2	5	9
10-<20	0	0	0	0	0	0
5-<10	0	0	0	0	2	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

44

15

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	87
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	3
10-<20	0	0	0	2	3	7
5-<10	0	0	0	0	0	10
3-<5	0	0	0	2	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

60

16

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	74
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	1
20-<35	0	0	+	+	1	6
10-<20	+	+	0	1	2	7
5-<10	0	0	0	+	1	3
3-<5	0	0	+	0	+	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

296

17

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	87
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	0	2
20-<35	0	0	1	0	1	4
10-<20	0	0	0	1	1	8
5-<10	0	0	0	1	4	6
3-<5	0	0	0	0	2	2
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

189

18

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	81
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	9
20-<35	0	0	0	0	1	11
10-<20	0	0	0	0	1	11
5-<10	0	0	0	0	1	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

141

22

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	55
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	4
20-<35	0	0	0	0	0	7
10-<20	0	0	0	0	2	11
5-<10	0	0	0	1	2	9
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

65

23

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	66
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	+	3
10-<20	0	0	0	0	1	6
5-<10	0	0	+	0	+	1
3-<5	0	0	0	+	0	0
1-<3	0	0	0	0	0	0
0-<1	+	0	0	0	+	0

671

24

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	74
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	0
10-<20	0	0	0	0	0	17
5-<10	0	0	0	0	0	4
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

23

25

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	0	88
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	7
20-<35	0	0	0	0	1	8
10-<20	0	0	0	1	1	10
5-<10	0	0	0	0	1	2
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

114

26

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	93
50-<80	0	0	0	0	1	6
35-<50	0	0	0	0	2	9
20-<35	0	0	0	1	2	6
10-<20	0	0	0	0	1	2
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

185

27

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	82
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	1	6
10-<20	0	0	0	1	2	14
5-<10	0	0	0	1	3	4
3-<5	0	0	1	0	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	1	1

200

31

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	28
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	2	11
20-<35	0	0	0	0	0	8
10-<20	0	0	0	0	5	28
5-<10	0	0	0	0	2	8
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

61

32

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	3	84
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	6
20-<35	0	0	0	0	1	9
10-<20	0	0	0	0	2	13
5-<10	0	0	+	+	1	6
3-<5	0	0	0	+	1	0
1-<3	0	0	0	0	+	0
0-<1	0	0	0	0	0	0

938

33

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	3	63
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	1	6
20-<35	0	0	0	1	1	8
10-<20	0	0	0	1	3	15
5-<10	0	0	0	+	2	6
3-<5	0	0	0	+	+	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

986

34

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	0	3	56
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	1	1	7
10-<20	0	0	0	1	1	12
5-<10	0	0	+	1	3	3
3-<5	0	0	+	0	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	+	+	0	+

341

35

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	53
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	0
10-<20	0	0	0	0	2	14
5-<10	0	0	1	1	2	8
3-<5	0	0	0	0	0	1
1-<3	0	1	0	0	0	0
0-<1	0	0	0	0	0	0

148

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	37
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	7
20-<35	0	0	0	0	3	10
10-<20	0	0	0	0	4	19
5-<10	0	0	0	0	3	5
3-<5	0	0	0	0	3	3
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

73

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	47
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	2	2
20-<35	0	0	0	0	5	6
10-<20	0	0	0	0	4	16
5-<10	0	0	0	2	14	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

51

44

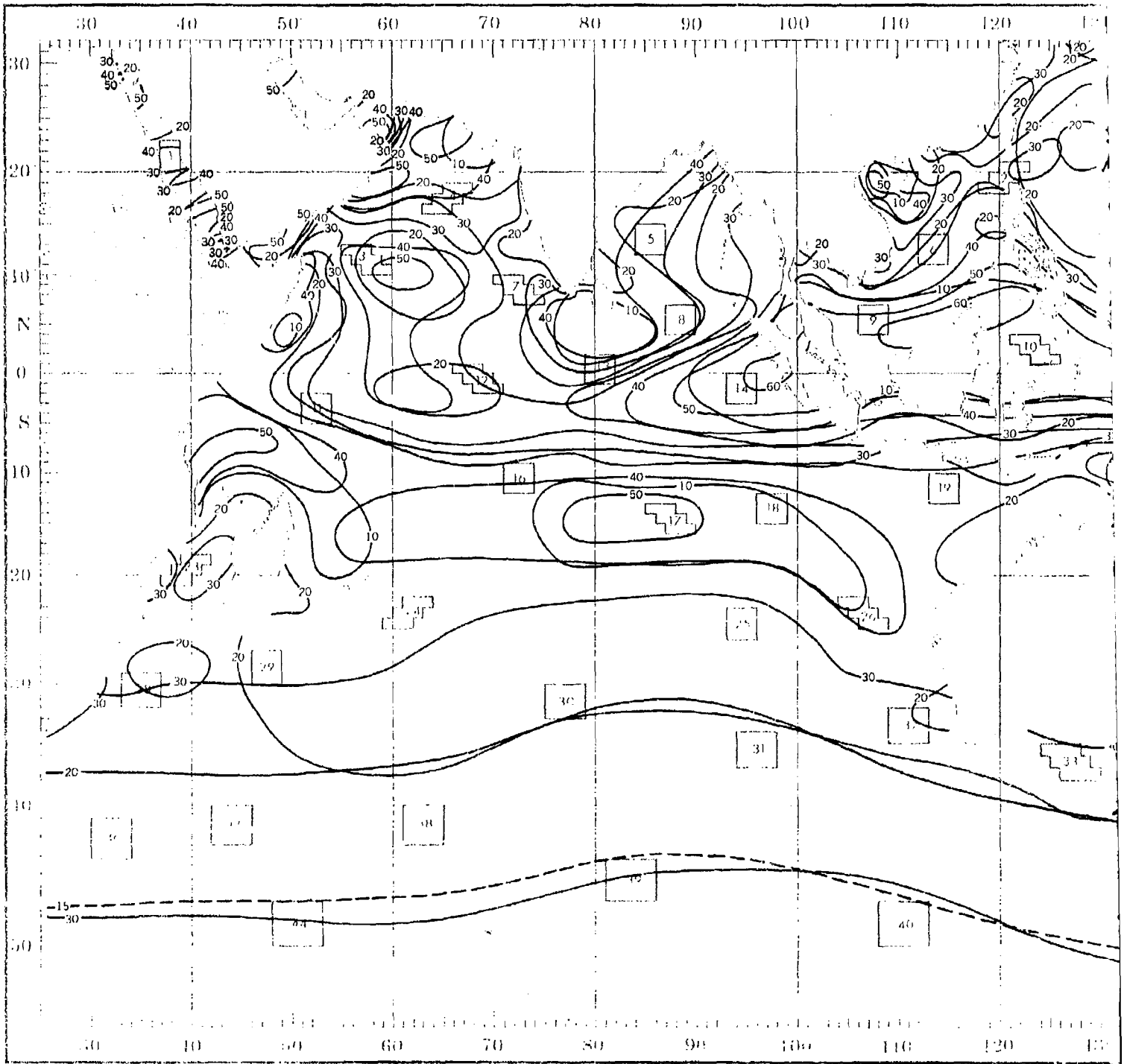
INSUFFICIENT DATA

45

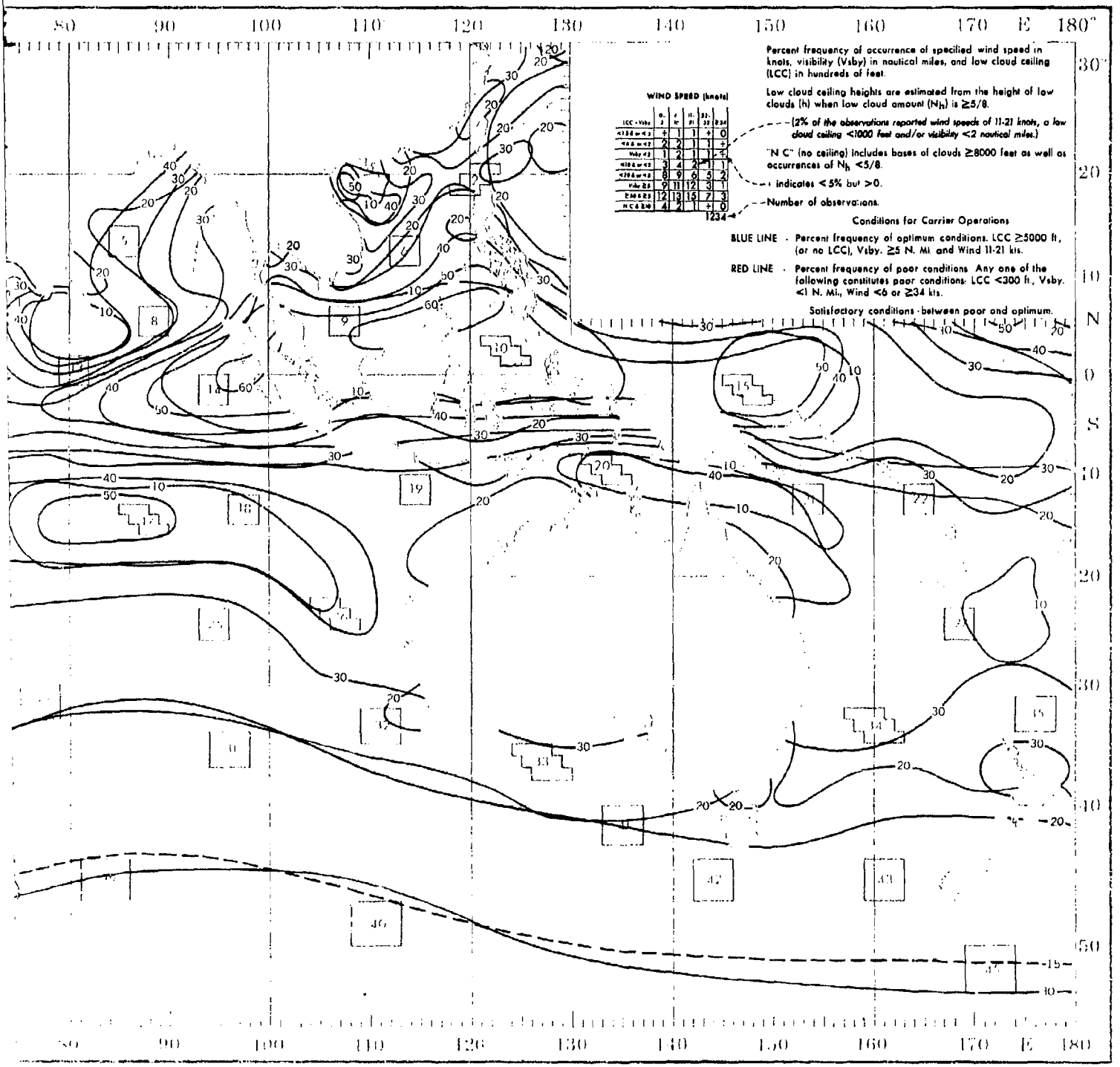
INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

MAY WI



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	+	0	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	0	+	+	0	0
<20 & OR <5	+	1	1	+	0
VSBY ≥5	12	40	40	6	0
≥50 & ≥5	12	39	39	6	0
NC & ≥10	10	33	34	4	0

1076

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	0
<5 & OR <2	+	1	2	+	+
VSBY <2	0	+	1	+	+
<10 & OR <2	+	2	4	1	+
<20 & OR <5	1	6	8	3	+
VSBY ≥5	11	45	33	6	+
≥50 & ≥5	10	39	26	3	+
NC & ≥10	9	34	22	2	+

6357

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	+	+	+	0
VSBY <2	0	+	+	0	0
<10 & OR <2	+	1	1	+	0
<20 & OR <5	+	1	3	1	+
VSBY ≥5	25	48	21	6	+
≥50 & ≥5	24	45	17	4	+
NC & ≥10	23	44	16	4	+

1382

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	+	+	0
<20 & OR <5	+	2	2	+	0
VSBY ≥5	9	51	38	1	+
≥50 & ≥5	8	49	35	1	+
NC & ≥10	8	46	31	1	+

589

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	1	0
<20 & OR <5	+	5	13	3	0
VSBY ≥5	10	38	43	6	0
≥50 & ≥5	9	30	29	2	0
NC & ≥10	7	28	26	1	0

246

WIND SPEED (KNO

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	
<5 & OR <2	+	1	2	+	
VSBY <2	+	+	1	+	
<10 & OR <2	+	3	4	1	
<20 & OR <5	1	6	9	2	
VSBY ≥5	12	54	26	4	
≥50 & ≥5	11	48	18	3	
NC & ≥10	10	43	15	1	

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	0	0	0
<20 & OR <5	2	7	2	0	0
VSBY ≥5	28	67	5	0	0
≥50 & ≥5	24	57	3	0	0
NC & ≥10	24	55	3	0	0

68

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	2	0	0
<20 & OR <5	2	9	5	0	0
VSBY ≥5	8	54	36	1	0
≥50 & ≥5	7	43	30	1	0
NC & ≥10	7	40	27	1	0

131

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	+	+	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	0	1	1	0	0
<20 & OR <5	+	6	5	+	0
VSBY ≥5	11	58	29	1	0
≥50 & ≥5	11	49	23	+	0
NC & ≥10	11	48	21	+	0

286

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	8	0	0
<20 & OR <5	0	5	11	0	0
VSBY ≥5	7	48	42	0	0
≥50 & ≥5	6	41	31	0	0
NC & ≥10	6	37	27	0	0

131

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	0	0	0
<20 & OR <5	0	5	0	2	0
VSBY ≥5	32	57	5	5	0
≥50 & ≥5	27	50	2	0	0
NC & ≥10	25	48	2	0	0

44

WIND SPEED (KNO

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	
<5 & OR <2	0	0	0	0	
VSBY <2	0	0	0	0	
<10 & OR <2	5	3	2	0	
<20 & OR <5	5	12	5	0	
VSBY ≥5	34	56	8	0	
≥50 & ≥5	27	42	6	0	
NC & ≥10	27	37	3	0	

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	0	0
<20 & OR <5	0	3	8	0	0
VSBY ≥5	6	46	49	0	0
≥50 & ≥5	6	43	37	0	0
NC & ≥10	6	43	37	0	0

35

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	2	0
<20 & OR <5	0	3	9	3	0
VSBY ≥5	2	26	87	6	0
≥50 & ≥5	2	22	52	3	0
NC & ≥10	2	22	61	2	0

186

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	+	2	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	11	3	0
<20 & OR <5	+	5	17	4	0
VSBY ≥5	2	35	52	7	0
≥50 & ≥5	2	30	35	4	0
NC & ≥10	2	28	33	3	0

258

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	13	0	0
<20 & OR <5	0	5	22	0	0
VSBY ≥5	4	36	53	4	0
≥50 & ≥5	4	25	29	4	0
NC & ≥10	4	24	25	4	0

66

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	+	+	0	0
VSBY <2	0	+	0	+	0
<10 & OR <2	0	1	1	+	0
<20 & OR <5	+	3	4	1	0
VSBY ≥5	14	43	36	7	0
≥50 & ≥5	13	39	30	6	0
NC & ≥10	13	38	29	6	0

696

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	
<5 & OR <2	0	+	+	0	
VSBY <2	0	0	0	0	
<10 & OR <2	0	4	0	0	
<20 & OR <5	0	22	0	0	
VSBY ≥5	13	48	30	9	
≥50 & ≥5	13	26	30	9	
NC & ≥10	13	26	30	4	

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	2	2	+	+
<20 & OR <5	+	5	7	2	+
VSBY ≥5	5	40	40	12	1
≥50 & ≥5	5	34	29	9	1
NC & ≥10	5	32	27	9	1

509

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	10	1	0
<20 & OR <5	0	1	19	8	0
VSBY ≥5	6	23	53	17	0
≥50 & ≥5	4	18	31	9	0
NC & ≥10	4	18	29	8	0

77

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	2	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	4	3	0
<20 & OR <5	0	1	14	8	2
VSBY ≥5	4	27	48	14	4
≥50 & ≥5	3	24	26	7	2
NC & ≥10	3	24	23	7	1

91

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	5	2	0
<20 & OR <5	3	20	13	5	3
VSBY ≥5	5	41	30	18	5
≥50 & ≥5	2	10	11	10	2
NC & ≥10	2	8	11	7	0

61

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	1	+
VSBY <2	0	0	0	+	0
<10 & OR <2	0	2	1	3	1
<20 & OR <5	1	5	5	7	1
VSBY ≥5	4	41	35	16	4
≥50 & ≥5	2	24	23	8	1
NC & ≥10	2	22	21	8	1

335

3

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	
<5 & OR <2	0	+	+	+	
VSBY <2	0	0	0	+	
<10 & OR <2	0	3	3	2	
<20 & OR <5	1	9	10	6	
VSBY ≥5	2	32	43	17	
≥50 & ≥5	1	16	27	10	
NC & ≥10	1	17	25	8	

37

INSUFFICIENT DATA

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	11	0	5
<20 & OR <5	0	5	16	0	5
VSBY ≥5	0	28	68	5	11
≥50 & ≥5	0	0	26	5	5
NC & ≥10	0	0	11	5	5

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	4	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	10	0	0
<20 & OR <5	1	6	28	4	0
VSBY ≥5	1	26	53	17	1
≥50 & ≥5	0	13	22	8	1
NC & ≥10	0	13	19	4	1

72

INSUFFICIENT DATA

4

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust

TY-WIND

MAY

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	+	+	0
<20 & OR <5	+	2	2	+	0
VSBY ≥5	9	51	38	1	+
≥50 & ≥5	8	49	35	1	+
NC & ≥10	8	45	31	1	+

599

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	1	0
<20 & OR <5	+	5	13	3	0
VSBY ≥5	10	38	43	6	0
≥50 & ≥5	9	30	29	2	0
NC & ≥10	7	29	26	1	0

245

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	+
<5 & OR <2	+	1	2	+	+
VSBY <2	+	+	1	+	+
<10 & OR <2	+	3	4	1	+
<20 & OR <5	1	6	9	2	+
VSBY ≥5	12	54	26	3	+
≥50 & ≥5	11	46	18	1	0
NC & ≥10	10	43	15	1	0

5779

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<5 & OR <2	0	+	1	+	0
VSBY <2	0	0	+	+	0
<10 & OR <2	+	1	3	+	0
<20 & OR <5	1	5	7	1	+
VSBY ≥5	11	54	32	2	+
≥50 & ≥5	10	46	22	1	0
NC & ≥10	10	45	20	1	0

1547

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<5 & OR <2	+	+	2	+	0
VSBY <2	0	+	+	+	0
<10 & OR <2	+	2	7	3	0
<20 & OR <5	1	5	15	6	+
VSBY ≥5	7	28	50	12	+
≥50 & ≥5	6	21	32	5	0
NC & ≥10	5	20	27	4	0

1484

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	0
<5 & OR <2	+	1	1	+	0
VSBY <2	+	+	+	+	0
<10 & OR <2	1	3	3	+	0
<20 & OR <5	3	10	6	+	0
VSBY ≥5	24	56	15	+	0
≥50 & ≥5	20	44	9	+	0
NC & ≥10	19	39	8	+	0

2527

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	8	0	0
<20 & OR <5	0	6	11	0	0
VSBY ≥5	7	48	42	0	0
≥50 & ≥5	6	41	31	0	0
NC & ≥10	6	37	27	0	0

131

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	0	0	0
<20 & OR <5	0	6	0	2	0
VSBY ≥5	32	57	6	5	0
≥50 & ≥5	27	50	2	0	0
NC & ≥10	26	48	2	0	0

44

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	5	3	2	0	0
<20 & OR <5	6	12	5	0	0
VSBY ≥5	34	56	8	0	0
≥50 & ≥5	27	42	5	0	0
NC & ≥10	27	37	3	0	0

59

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	+
<5 & OR <2	0	0	1	+	+
VSBY <2	0	0	1	+	+
<10 & OR <2	+	+	5	+	+
<20 & OR <5	+	6	10	1	+
VSBY ≥5	4	46	45	2	0
≥50 & ≥5	3	38	33	1	0
NC & ≥10	3	37	32	1	0

294

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	4	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	1	11	1	2
<20 & OR <5	0	3	15	3	2
VSBY ≥5	2	21	62	12	2
≥50 & ≥5	2	18	43	7	0
NC & ≥10	2	17	41	7	0

188

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	4	0	0
<20 & OR <5	0	1	8	6	0
VSBY ≥5	1	18	56	25	0
≥50 & ≥5	1	13	36	13	0
NC & ≥10	1	12	35	13	0

139

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	13	0	0
<20 & OR <5	0	5	22	0	0
VSBY ≥5	4	36	53	4	0
≥50 & ≥5	4	26	29	4	0
NC & ≥10	4	24	26	4	0

55

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	0
<5 & OR <2	0	+	+	+	0
VSBY <2	0	+	0	+	0
<10 & OR <2	0	1	1	+	0
<20 & OR <5	+	3	4	1	0
VSBY ≥5	14	43	35	7	0
≥50 & ≥5	13	38	30	8	0
NC & ≥10	13	38	29	6	0

686

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	0	0	0
<20 & OR <5	0	22	0	0	0
VSBY ≥5	13	48	30	9	0
≥50 & ≥5	13	26	30	9	0
NC & ≥10	13	26	30	4	0

23

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	0	0
<20 & OR <5	2	7	7	0	0
VSBY ≥5	12	48	38	1	0
≥50 & ≥5	8	36	22	1	0
NC & ≥10	8	36	22	1	0

113

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	1	0
<20 & OR <5	0	3	5	2	0
VSBY ≥5	4	27	54	15	0
≥50 & ≥5	4	20	38	11	0
NC & ≥10	3	20	35	10	0

193

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	5	3	0
<20 & OR <5	1	8	15	4	0
VSBY ≥5	7	36	40	11	0
≥50 & ≥5	5	27	28	8	0
NC & ≥10	4	26	26	7	0

199

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	6	0	2
<20 & OR <5	3	20	19	6	3
VSBY ≥5	5	41	30	18	5
≥50 & ≥5	2	10	11	10	2
NC & ≥10	2	8	11	7	0

61

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	1	+
VSBY <2	0	0	0	+	0
<10 & OR <2	+	2	1	3	1
<20 & OR <5	1	9	5	7	1
VSBY ≥5	4	41	35	16	4
≥50 & ≥5	2	24	23	8	1
NC & ≥10	2	22	21	8	1

336

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	+
<5 & OR <2	0	+	+	+	+
VSBY <2	0	0	0	0	+
<10 & OR <2	0	3	3	2	+
<20 & OR <5	1	9	10	6	1
VSBY ≥5	2	32	43	17	3
≥50 & ≥5	1	18	27	10	2
NC & ≥10	1	17	25	8	1

182

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	1	0
<5 & OR <2	0	0	2	1	0
VSBY <2	0	0	1	+	0
<10 & OR <2	0	1	6	3	+
<20 & OR <5	1	5	16	8	1
VSBY ≥5	4	26	51	14	1
≥50 & ≥5	2	19	31	8	1
NC & ≥10	2	19	30	6	0

140

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	1	1
VSBY <2	0	0	0	1	1
<10 & OR <2	1	2	7	2	1
<20 & OR <5	1	5	20	7	3
VSBY ≥5	3	33	45	13	1
≥50 & ≥5	2	25	22	7	1
NC & ≥10	2	25	20	6	1

168

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	4	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	10	0	0
<20 & OR <5	1	6	28	4	0
VSBY ≥5	1	26	53	17	1
≥50 & ≥5	0	13	22	6	1
NC & ≥10	0	13	19	4	1

72

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	4	8	2	0
<20 & OR <5	4	8	18	4	2
VSBY ≥5	8	24	46	18	2
≥50 & ≥5	4	16	18	8	0
NC & ≥10	4	16	18	8	0

50

44

INSUFFICIENT DATA

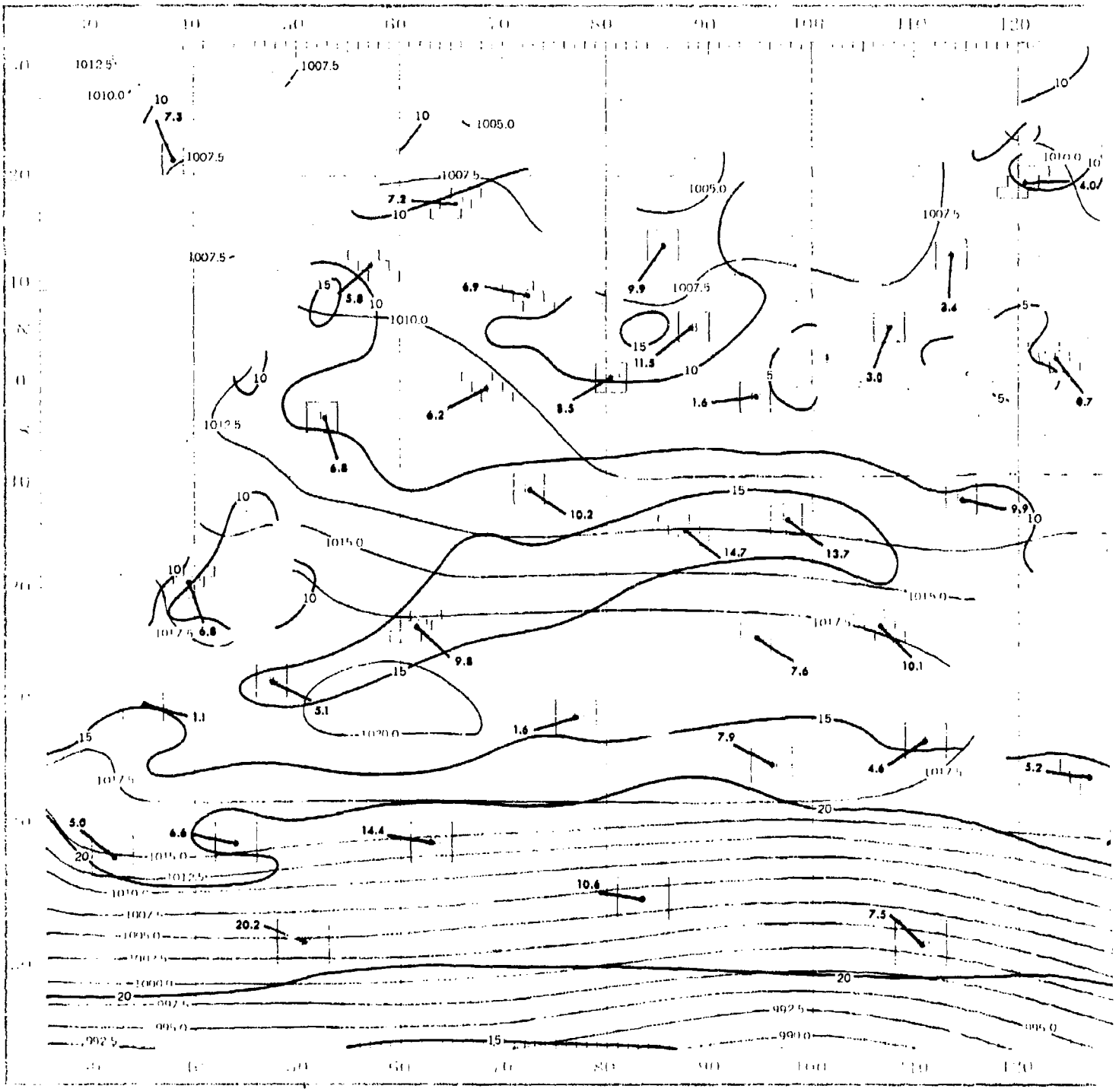
45

INSUFFICIENT DATA

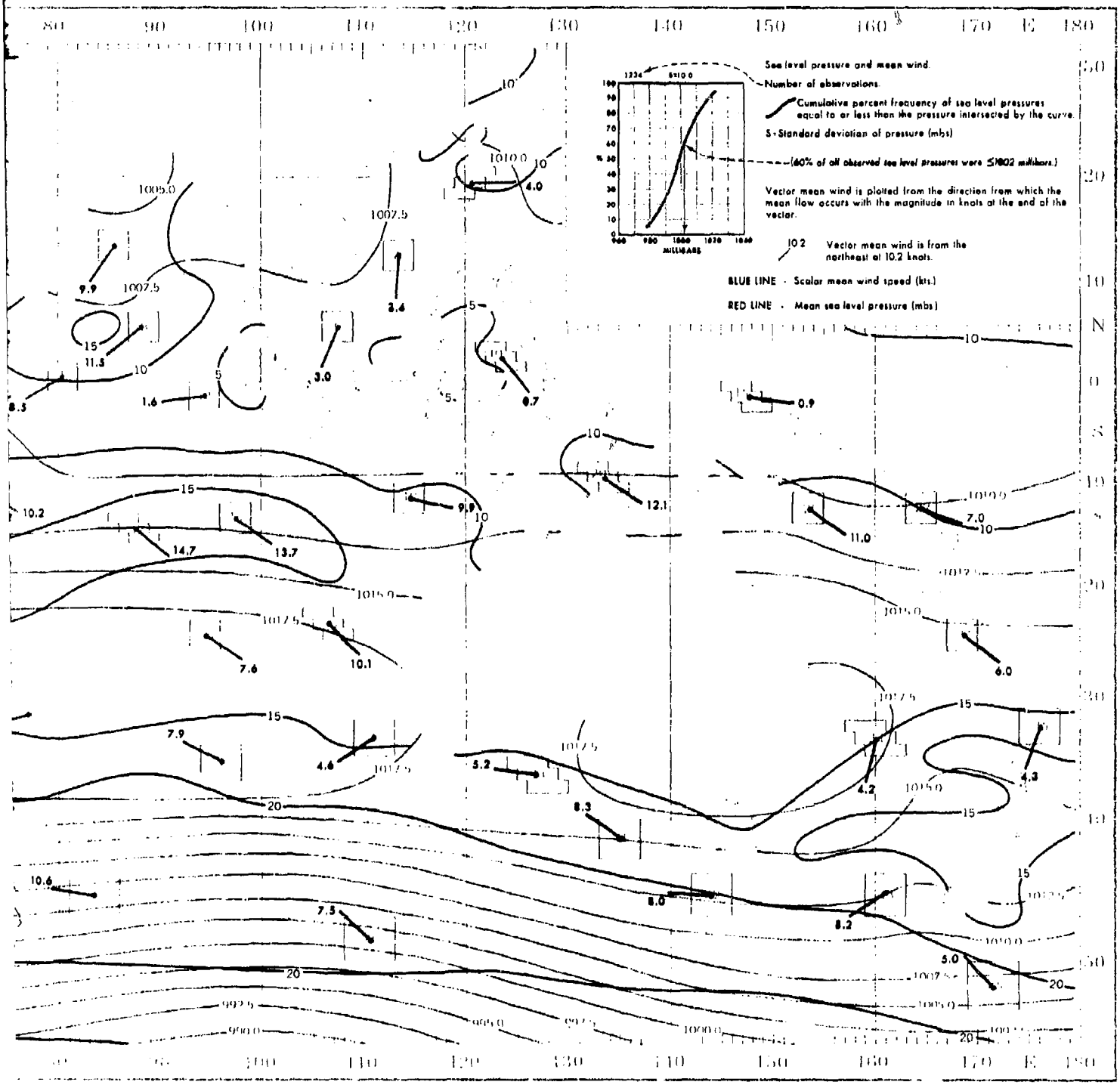
ve compilation of available data for specified areas without regard to suspected biases.
ite page) are based on all available data subjectively adjusted where bias was evident.

MAY

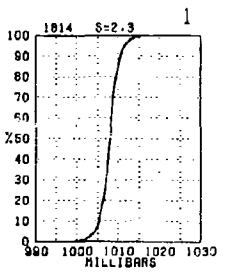
SEA LEVEL

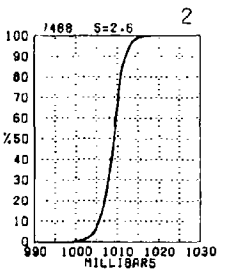


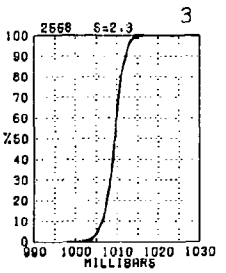
SEA LEVEL PRESSURE AND MEAN WIND

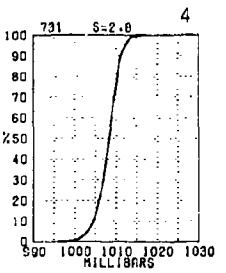


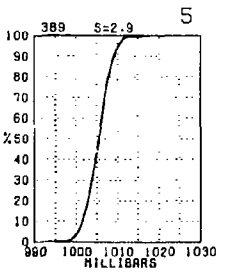
SEA LEVEL PRESSURE

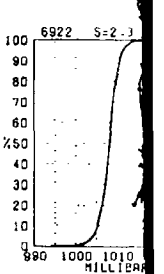


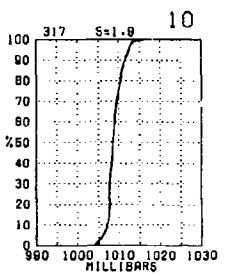


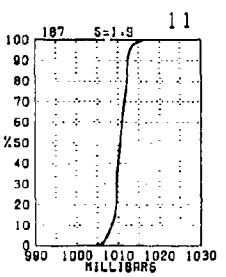


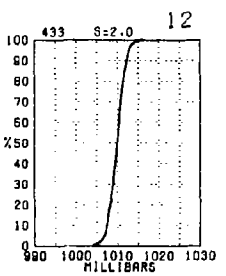


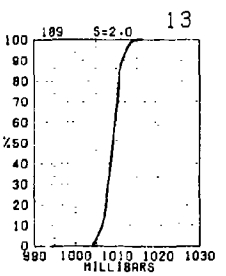


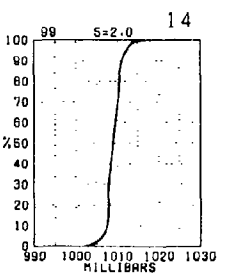


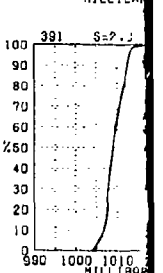


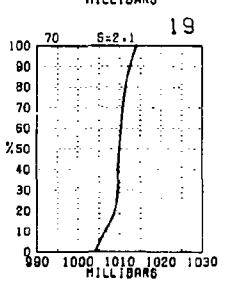


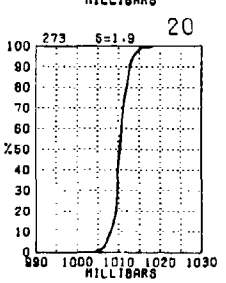


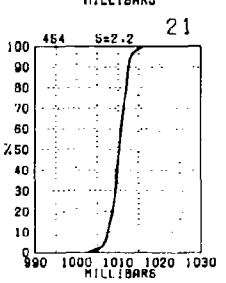


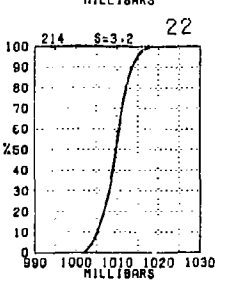


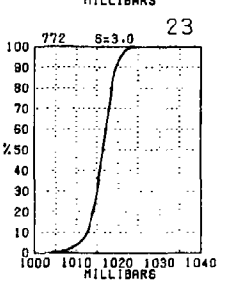


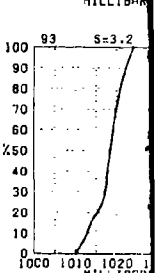


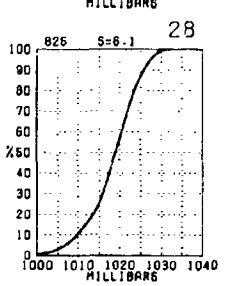


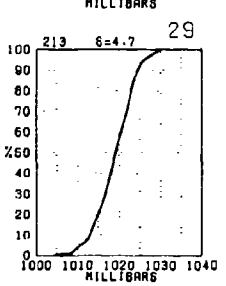


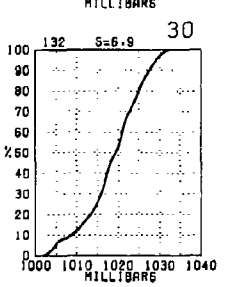


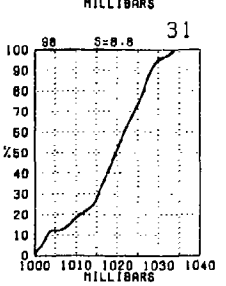


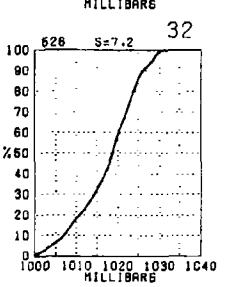


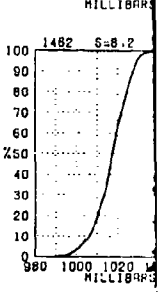


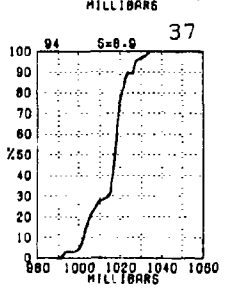


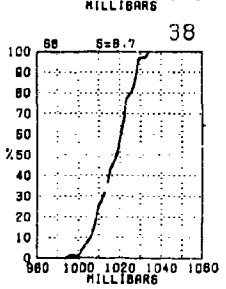


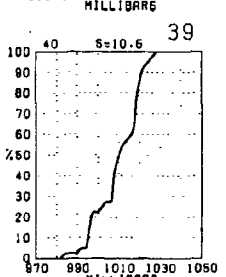












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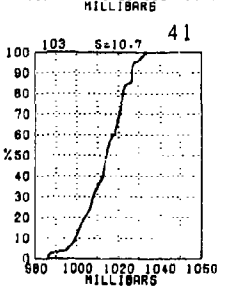
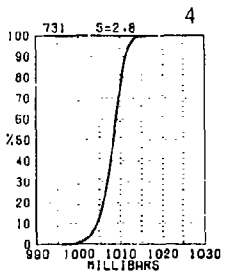
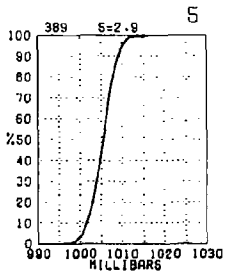


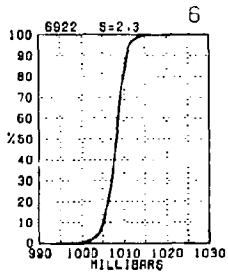
INSUFFICIE DATA

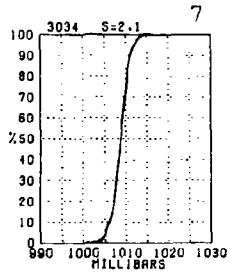
Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively a

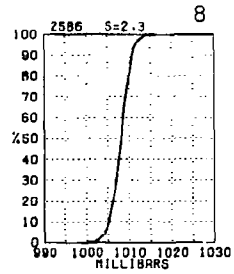
MAY

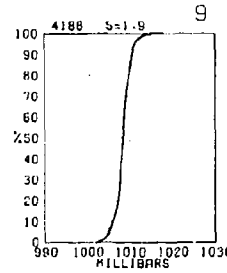


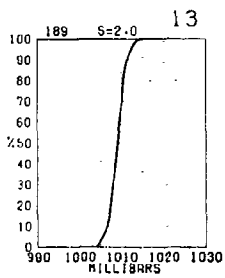


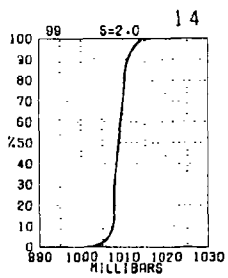


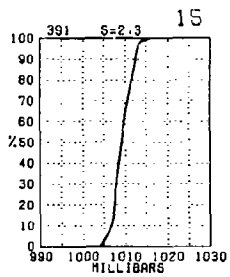


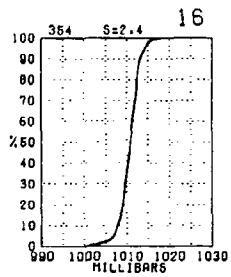


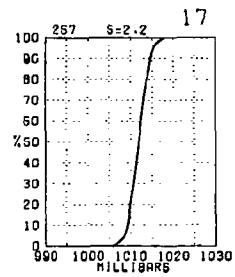


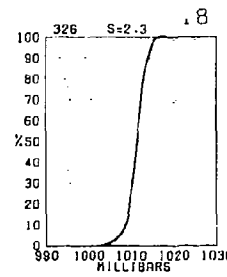


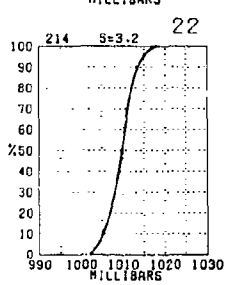


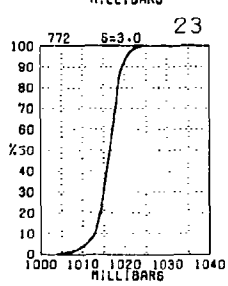


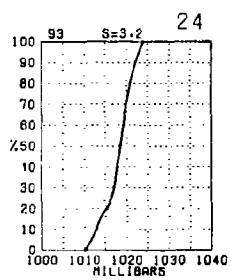


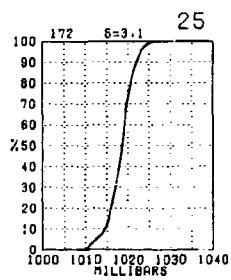


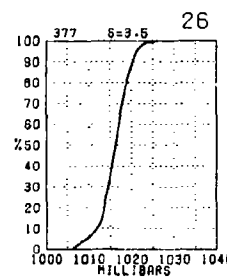


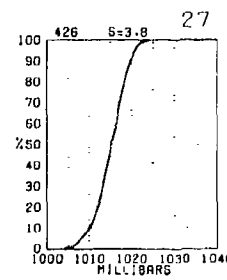


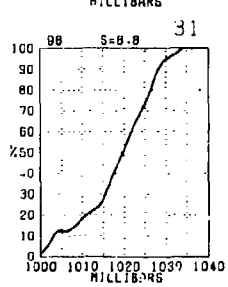


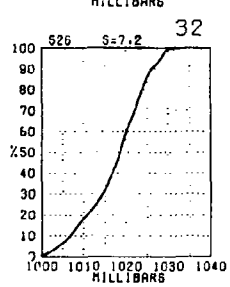


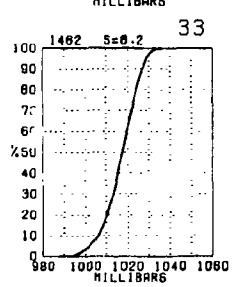


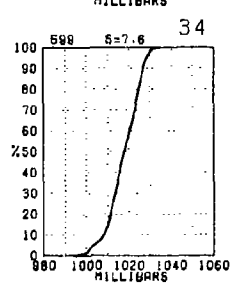


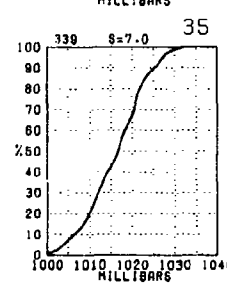


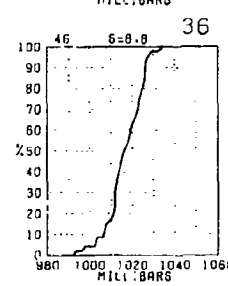












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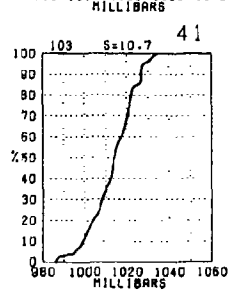

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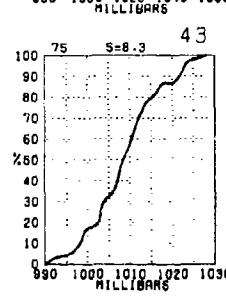


44

INSUFFICIENT DATA

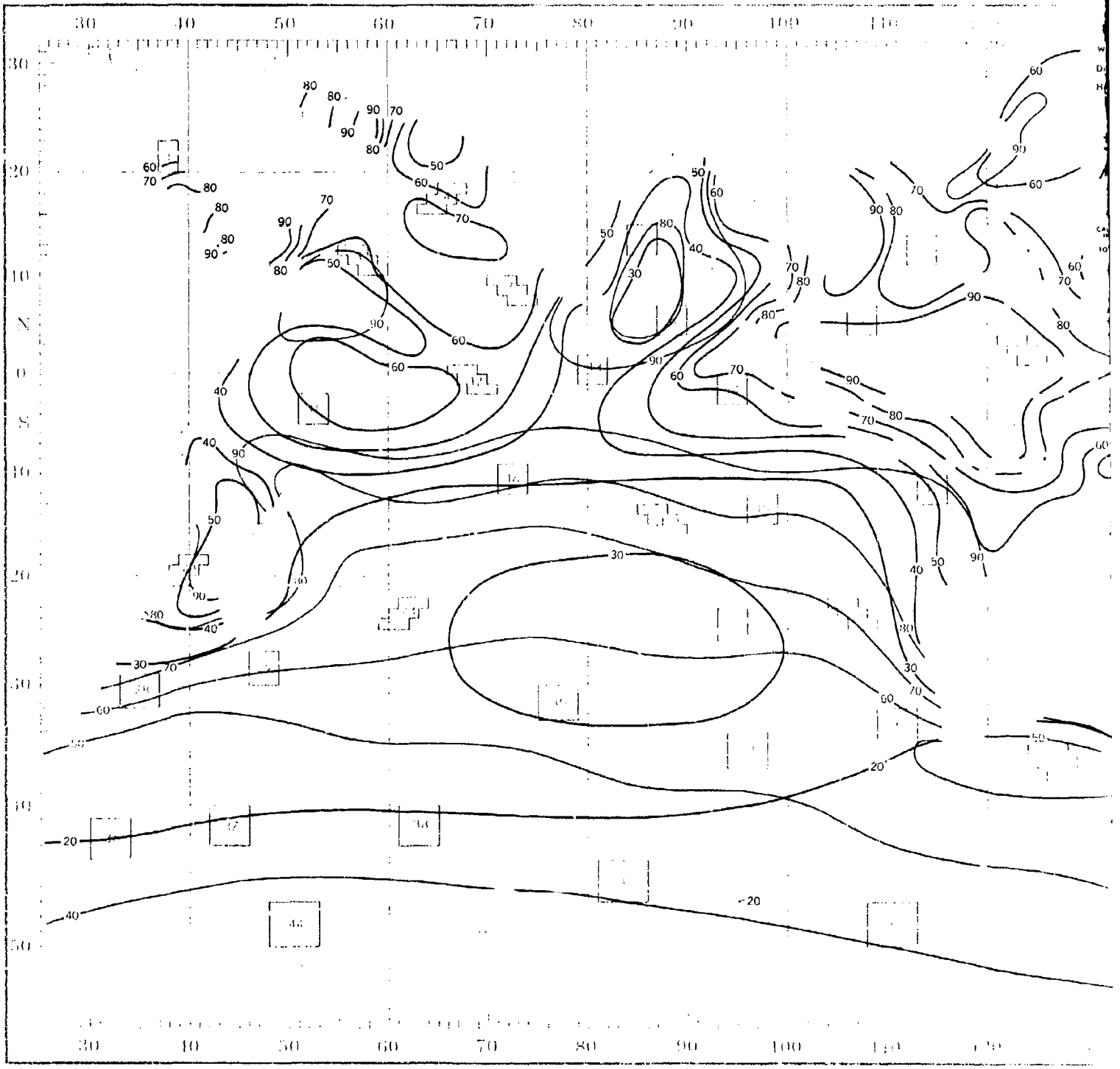
45

INSUFFICIENT DATA

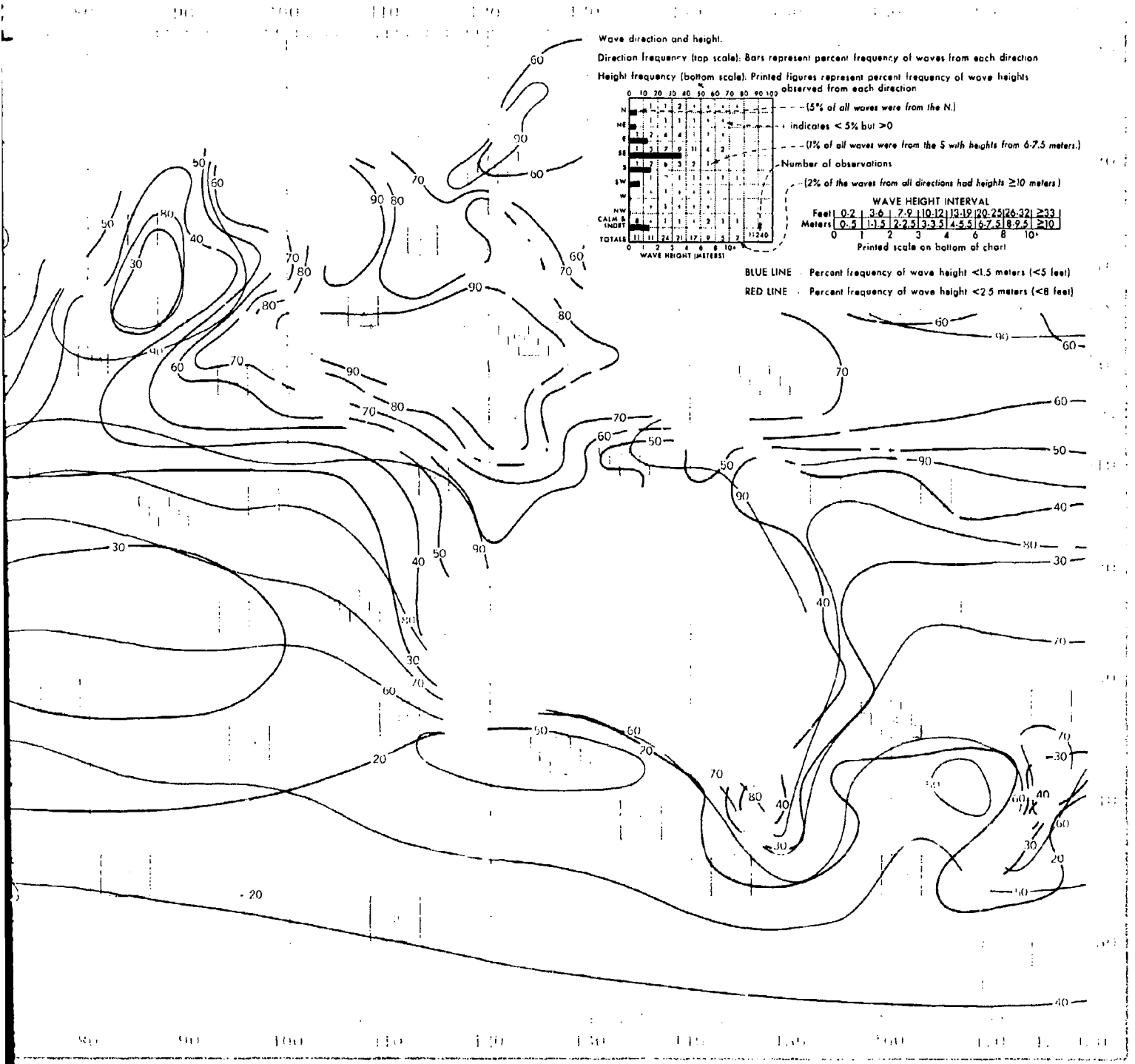
ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

MAY

WAVES



WAVES (<1.5 AND <2.5 METERS)



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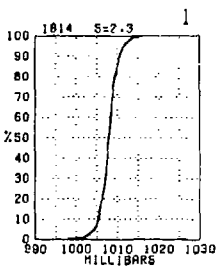

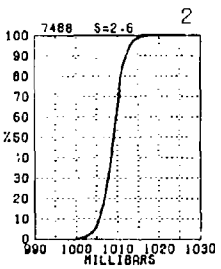

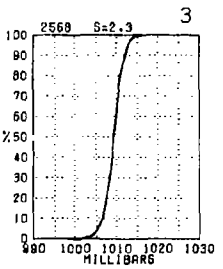

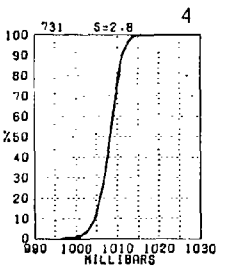

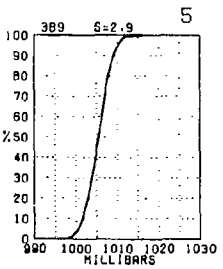

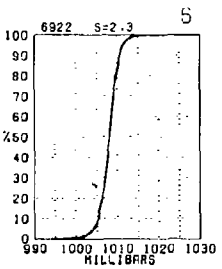

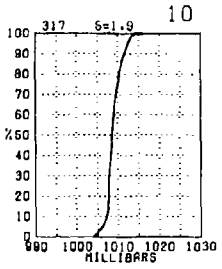

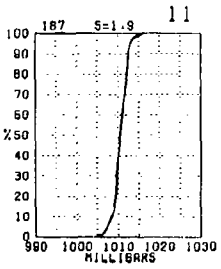

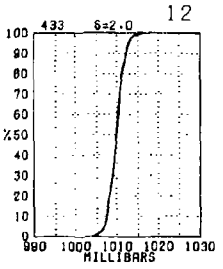

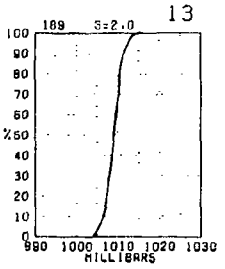

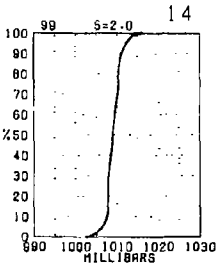

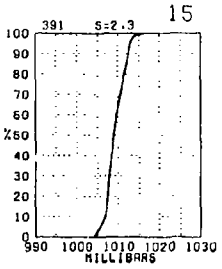

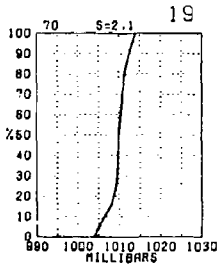

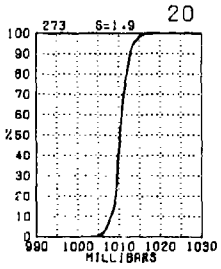

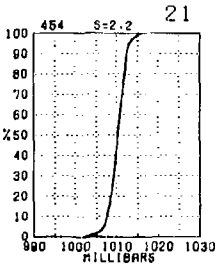

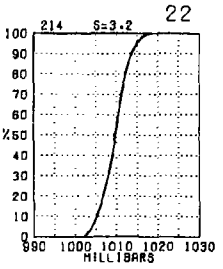

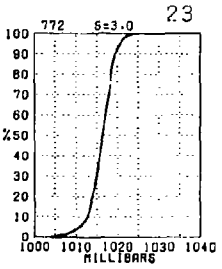

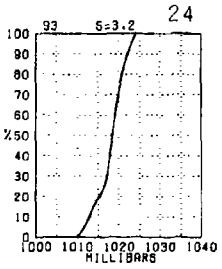

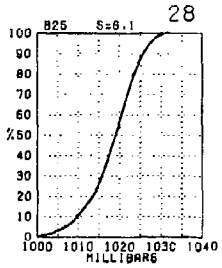

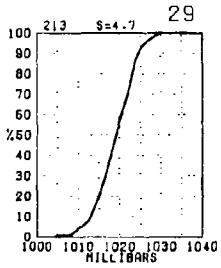

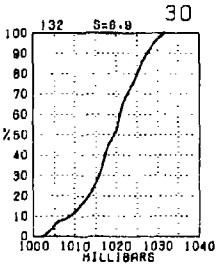

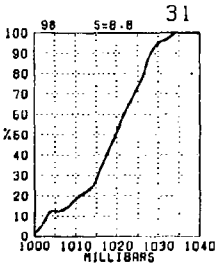

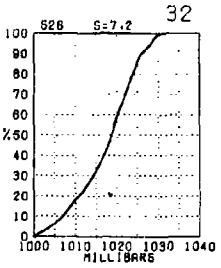

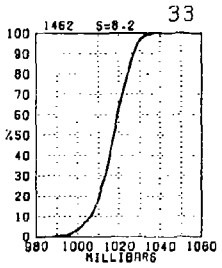

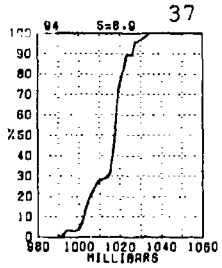

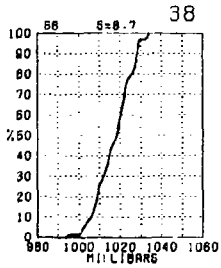

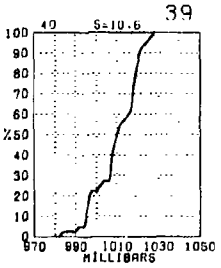

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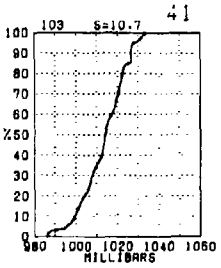
INSUFFICIENT DATA

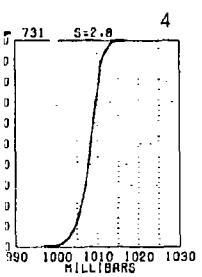


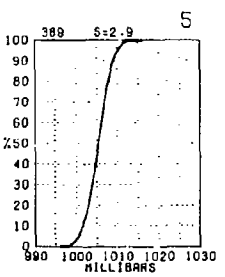
42

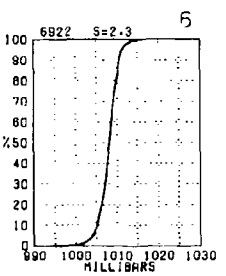
INSUFFICIENT DATA

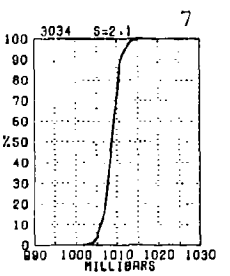
Graphs represent the objective compilation of available data for specified areas without regar
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

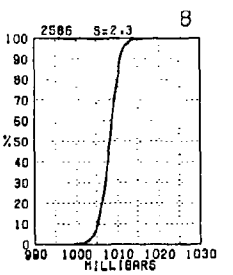
MAY

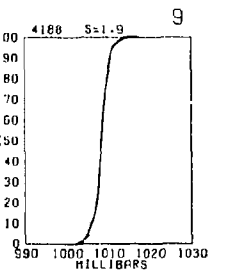


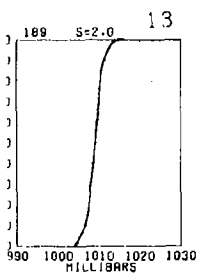


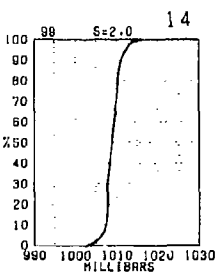


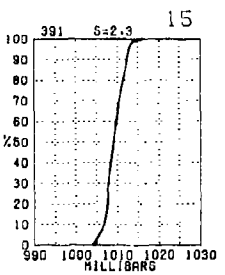


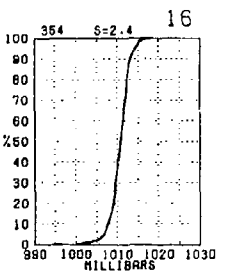


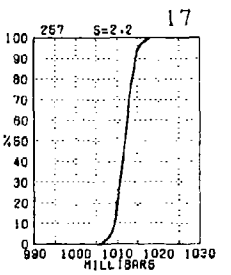


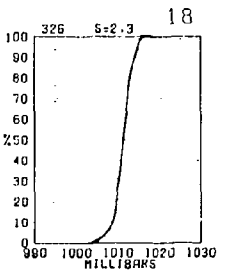


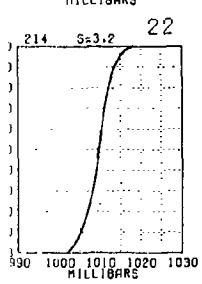


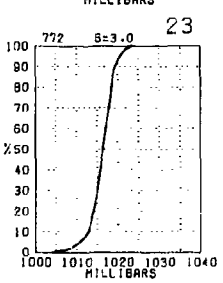


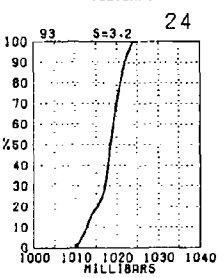


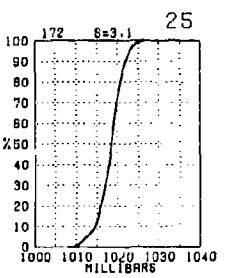


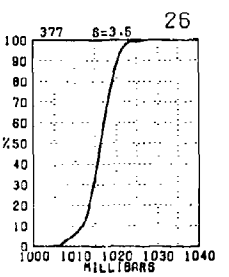


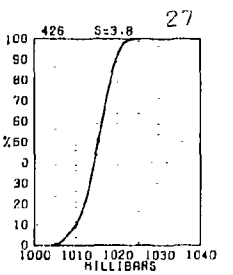


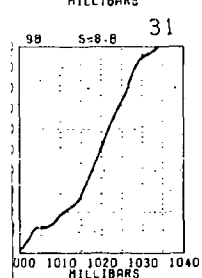


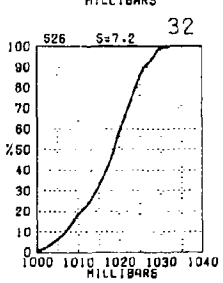


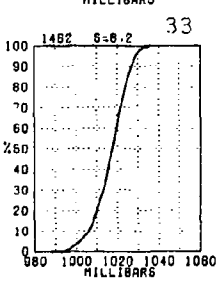


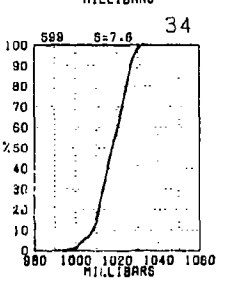


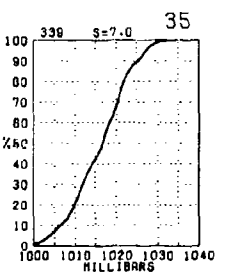


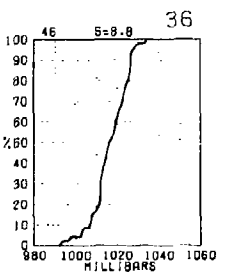












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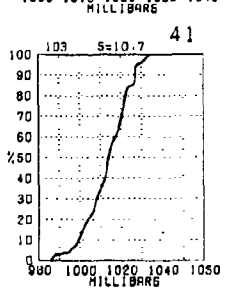
INSUFFICIENT DATA



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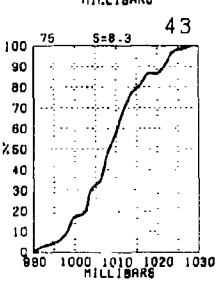


44

INSUFFICIENT DATA

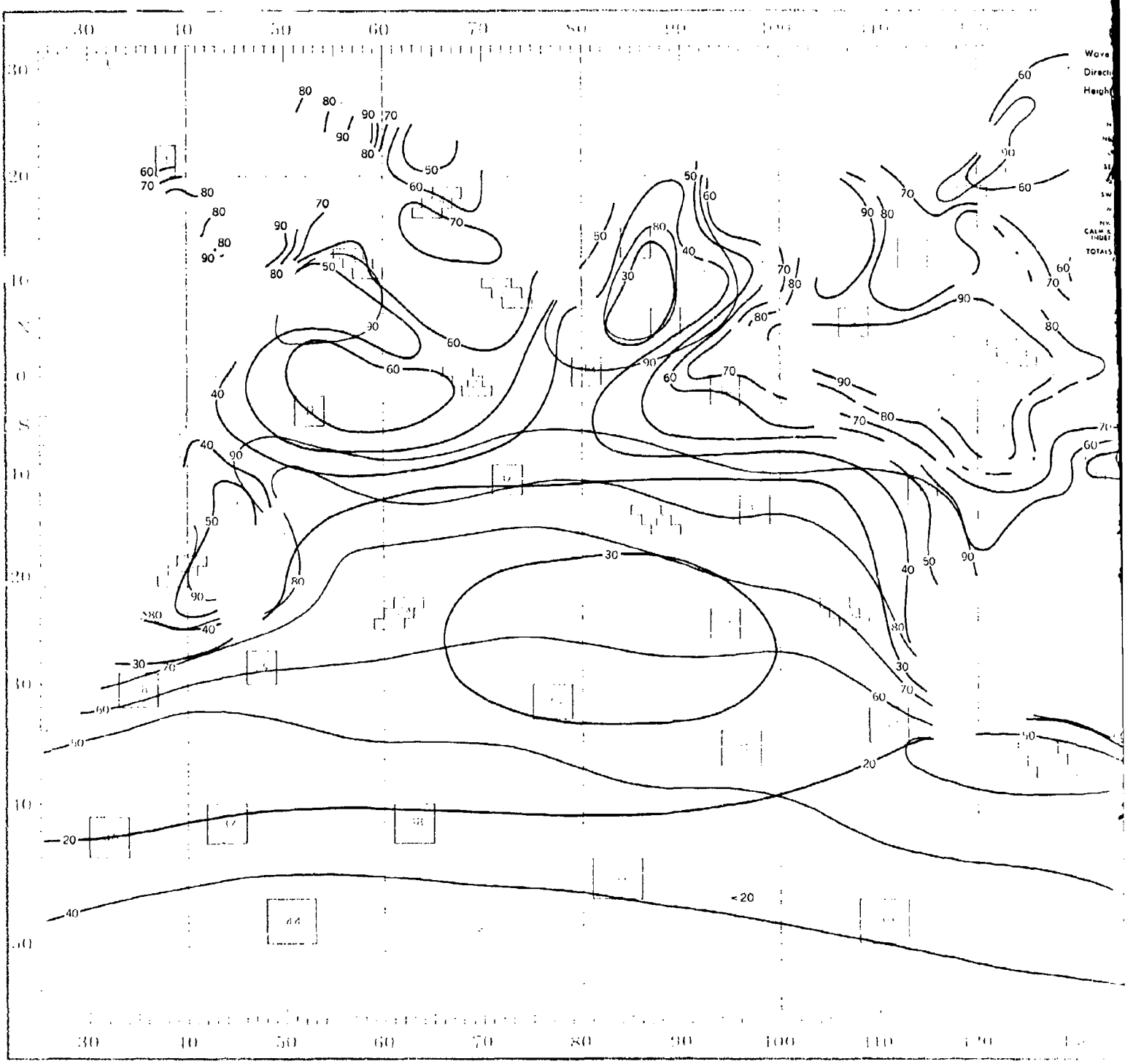
45

INSUFFICIENT DATA

ve compilation of available data for specified areas without regard to suspected biases.
ite page) are based on all available data subjectively adjusted where bias was evident.

MAY

WAVES



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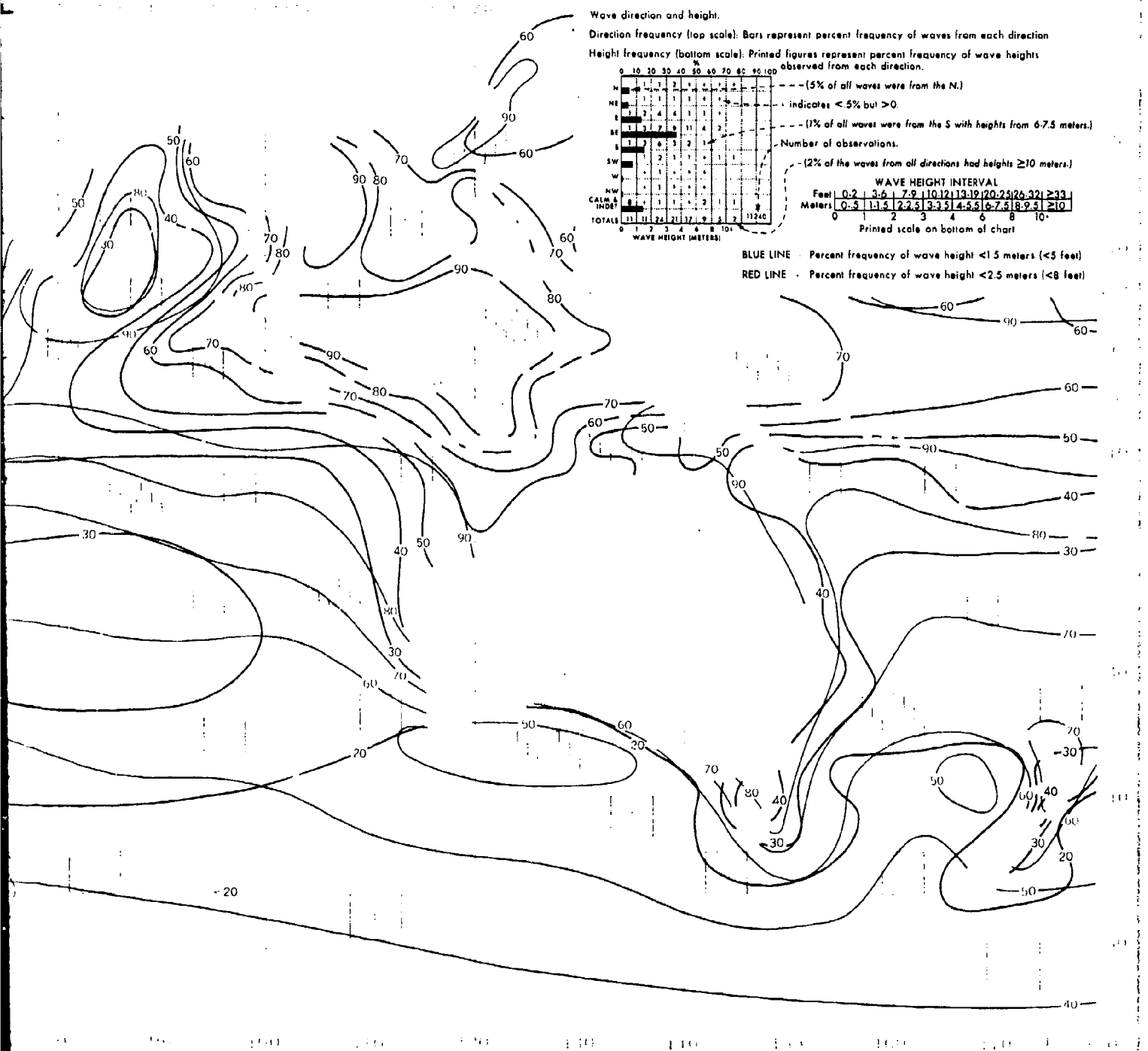
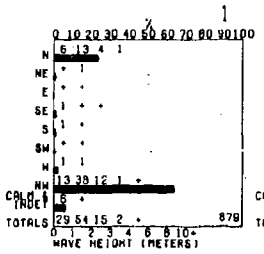
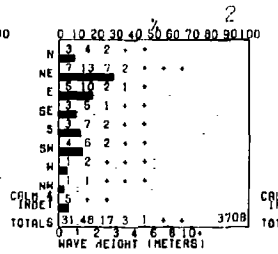
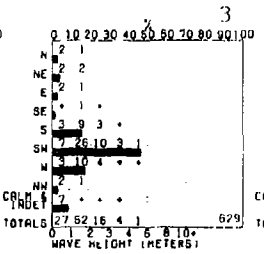
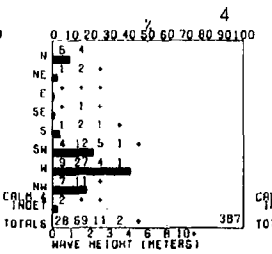


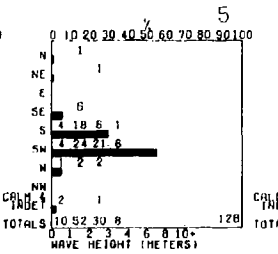
WAVE DIRECTION AND HEIGHT

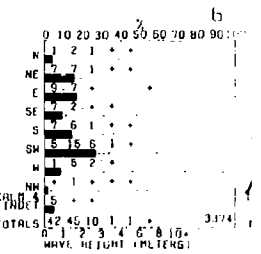


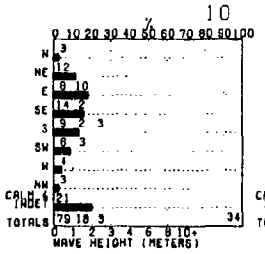


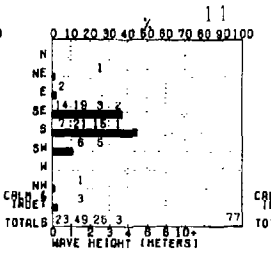


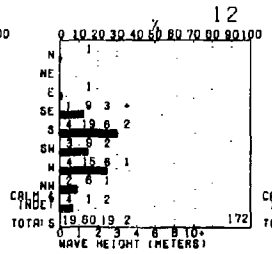


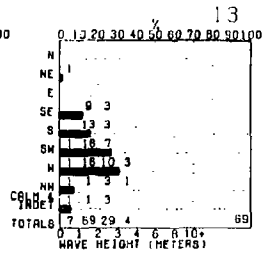






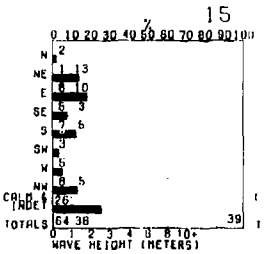


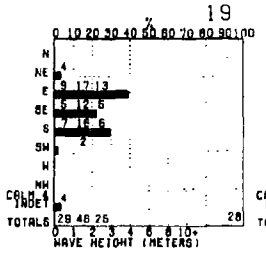


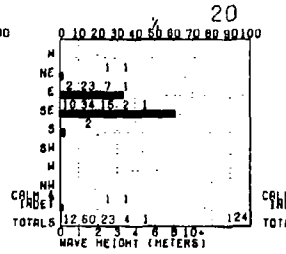


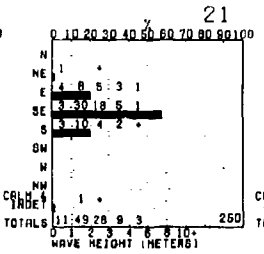
14

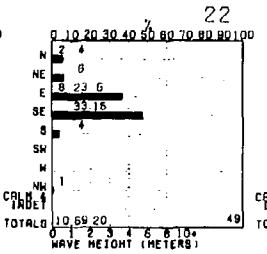
INSUFFICIENT DATA

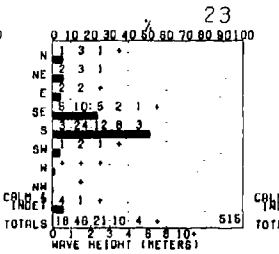


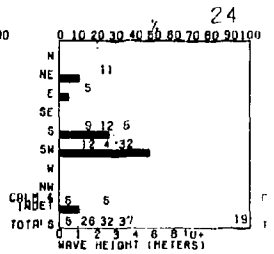


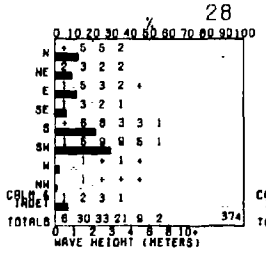


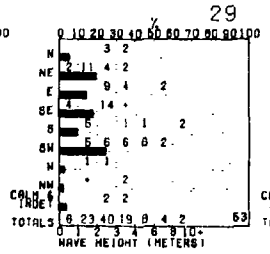


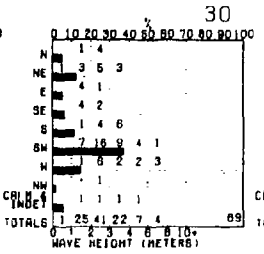


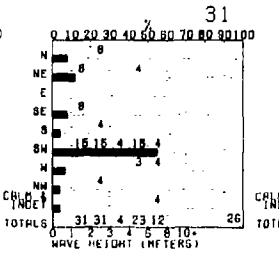


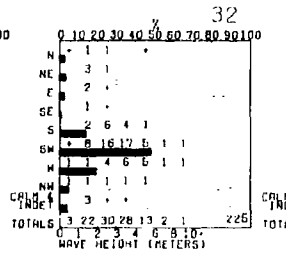


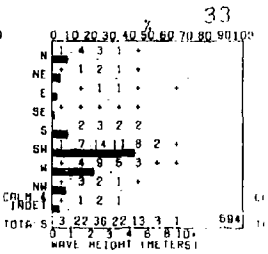












37

INSUFFICIENT DATA

38

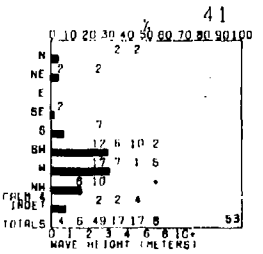
INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA



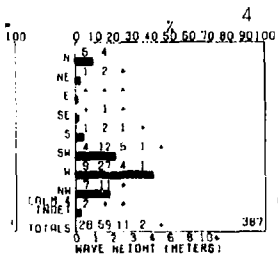
42

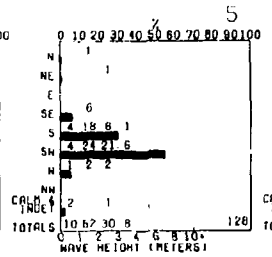
INSUFFICIENT DATA

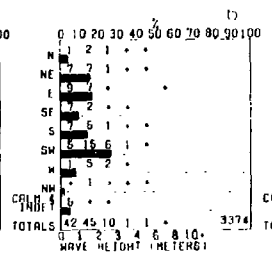
Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

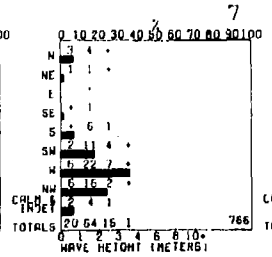
IGHT

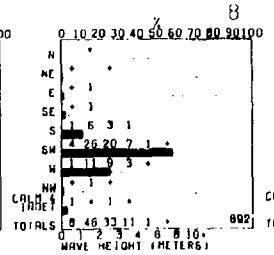
MAY

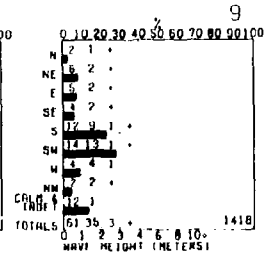


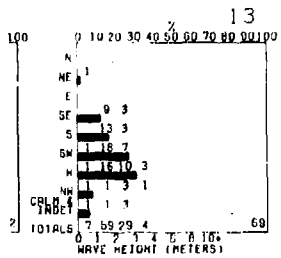






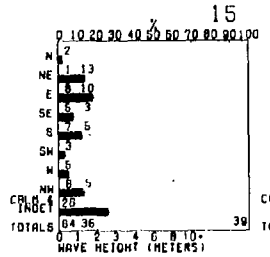


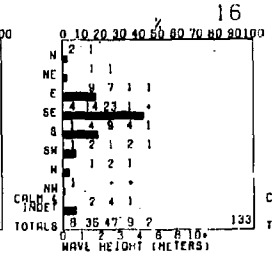


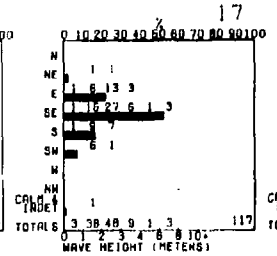


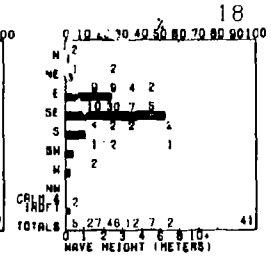
14

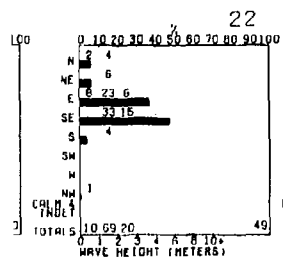
INSUFFICIENT DATA

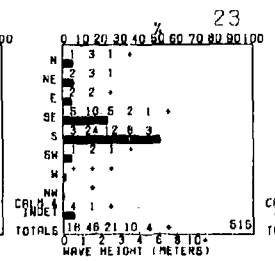


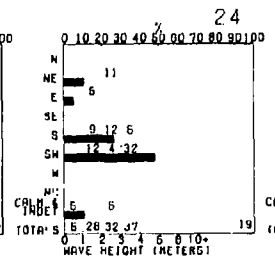


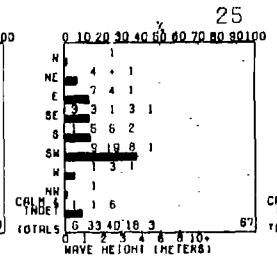


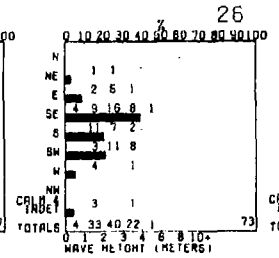


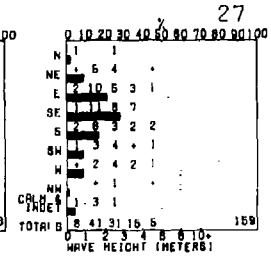


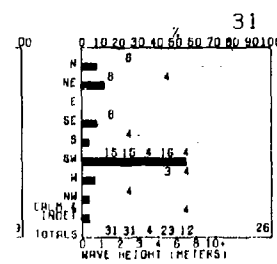


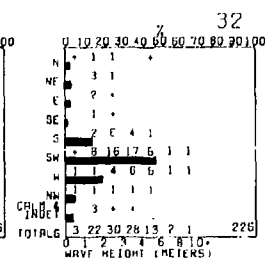


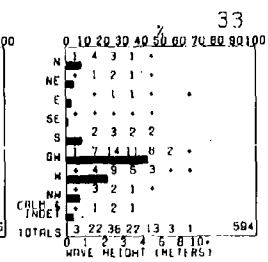


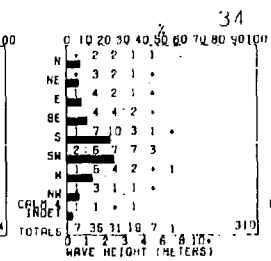


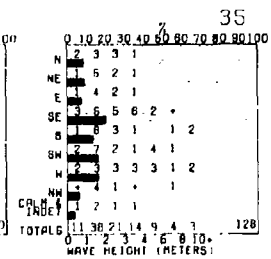










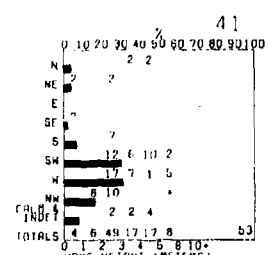


36

INSUFFICIENT DATA

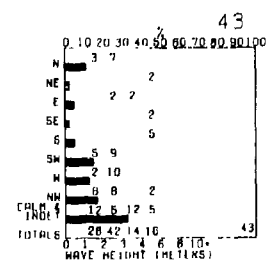
40

INSUFFICIENT DATA



42

INSUFFICIENT DATA



44

INSUFFICIENT DATA

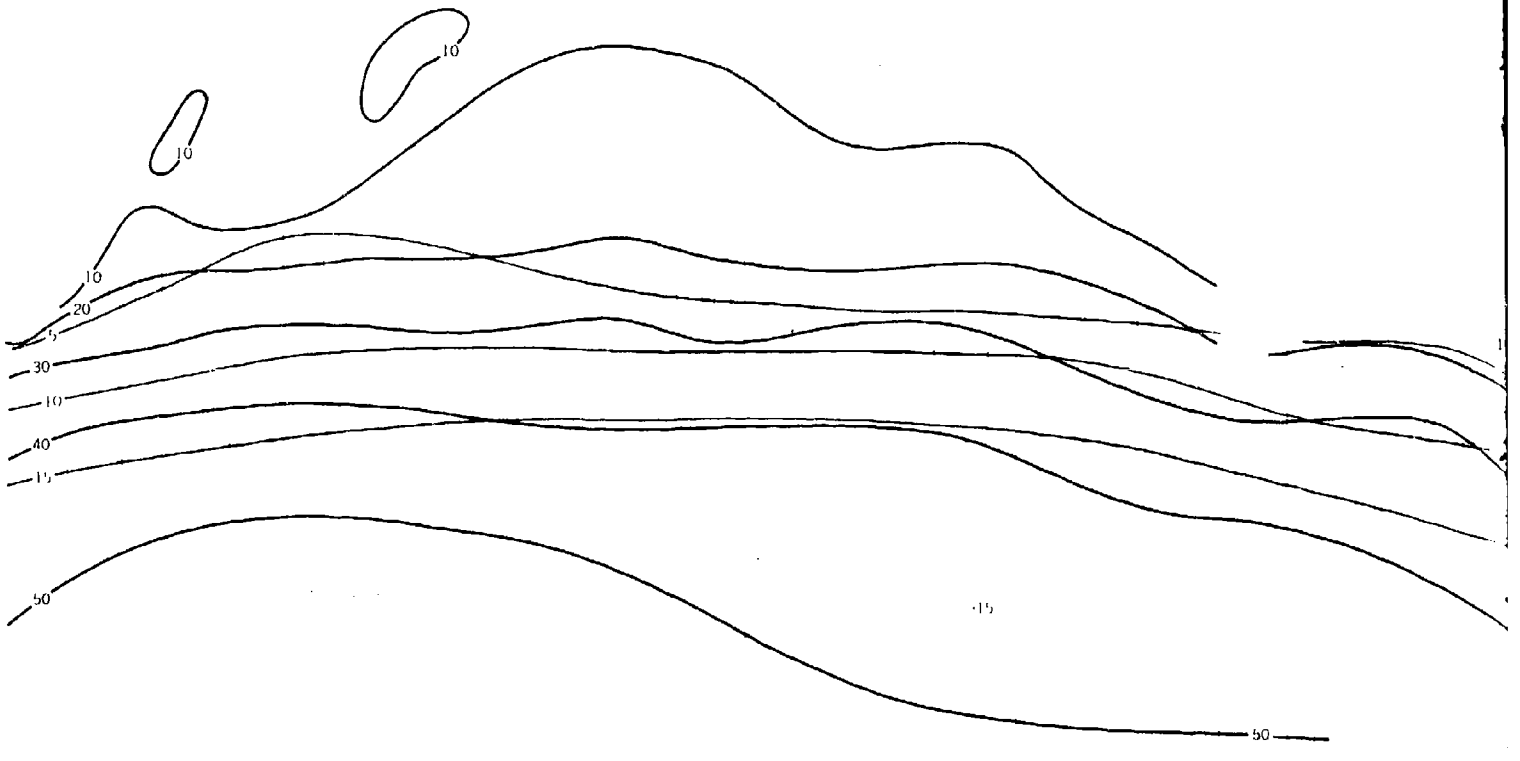
45

INSUFFICIENT DATA

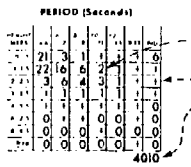
bjective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

MAY

WAVES



WAVES (≥3.5 AND ≥6 METERS)



Percent frequency of occurrence of wave period and height

(2% of observed waves had a height of 11.5 meters and a period of 10-11 seconds)

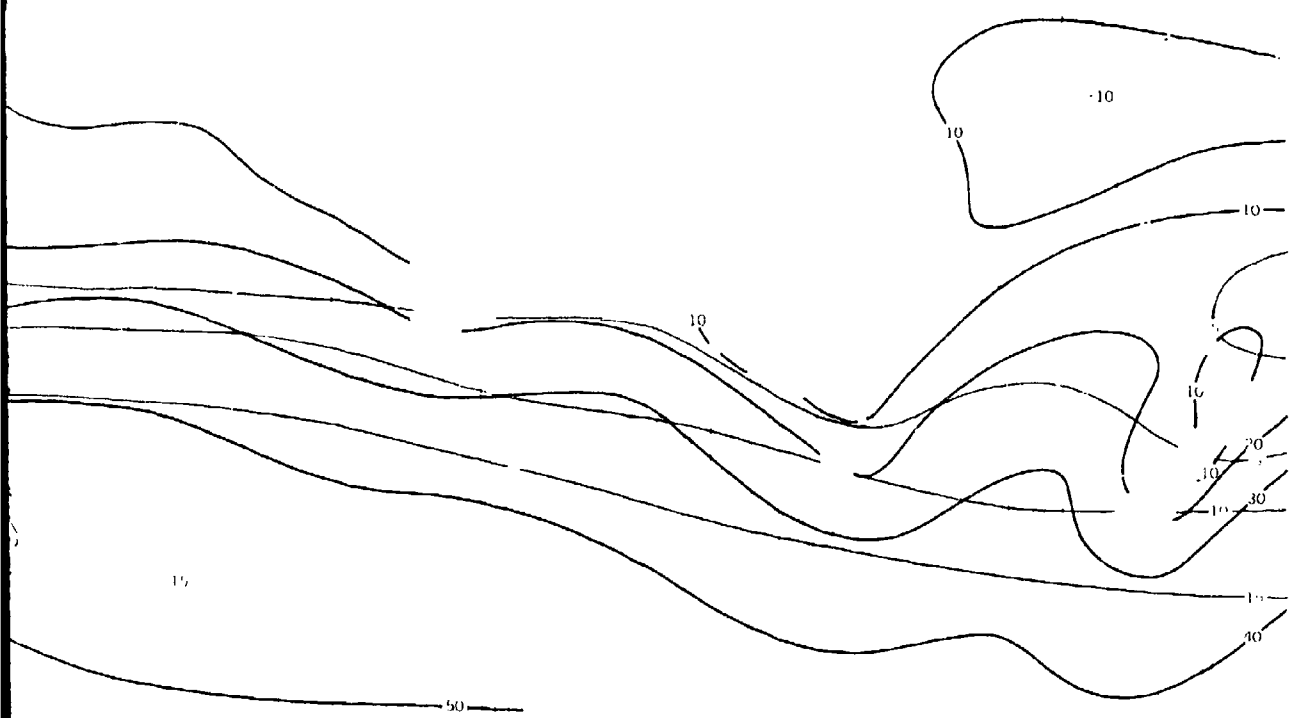
+ indicates < 5% but >0

Number of observations

Waves are selected on the basis of the higher of sea and swell when both are reported. If both heights are equal, the wave with the longer period is selected

BLUE LINE - Percent frequency of wave height ≥3.5 meters (≥12 feet)

RED LINE - Percent frequency of wave height ≥6 meters (≥20 feet)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	1	0	0	0	0	11
1-1.5	26	16	3	1	0	0	5
2-2.5	4	6	2	1	+	0	1
3-3.5	+	1	1	+	+	0	0
4-4.5	0	0	+	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

340

2

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	27	2	+	+	0	0	6
1-1.5	23	16	4	1	+	+	1
2-2.5	2	5	6	2	+	+	+
3-3.5	+	1	1	+	+	+	+
4-4.5	+	+	+	+	+	+	0
5-7.5	0	0	0	+	+	+	0
8-9.5	0	0	0	0	+	0	0
>10	0	0	0	0	0	0	0

3844

3

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	17	2	1	1	0	0	12
1-1.5	16	18	6	3	0	+	5
2-2.5	3	4	4	3	+	0	2
3-3.5	0	1	1	1	+	+	+
4-4.5	0	+	0	+	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

681

4

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	26	1	+	+	0	0	4
1-1.5	26	18	6	1	1	1	2
2-2.5	2	4	3	1	+	0	+
3-3.5	+	+	+	0	+	+	+
4-4.5	0		0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

408

5

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	1	0	1	0	0	4
1-1.5	15	21	7	1	0	0	4
2-2.5	0	17	7	1	0	1	2
3-3.5	0	3	1	0	0	2	1
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

136

14

INSUFFICIENT DATA

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	39	3	1	+	0	0	0
1-1.5	22	14	3	1	+	+	+
2-2.5	1	4	3	1	+	+	+
3-3.5	+	+	+	+	+	+	0
4-4.5	0	+	+	+	+	+	+
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

37

1

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	31	12	0	2	0	0	
1-1.5	14	10	2	5	0	0	
2-2.5	0	0	0	0	0	0	
3-3.5	0	0	0	0	0	0	
4-4.5	0	0	0	0	0	0	
5-7.5	0	0	0	0	0	0	
8-9.5	0	0	0	0	0	0	
>10	0	0	0	0	0	0	

2

10

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	51	3	8	0	0	0	19
1-1.5	11	5	0	0	0	0	0
2-2.5	0	3	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

37

11

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	6	0	0	0	0	0
1-1.5	26	15	2	0	0	0	4
2-2.5	10	8	2	4	1	0	0
3-3.5	0	2	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

81

12

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	13	1	1	1	0	0	4
1-1.5	13	28	18	2	0	1	1
2-2.5	1	8	8	2	0	1	2
3-3.5	0	0	1	1	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

173

13

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	0	0	0	0	0	1
1-1.5	30	14	9	3	1	0	1
2-2.5	9	9	4	6	0	0	1
3-3.5	0	0	3	1	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

59

INSUFFICIENT DATA

19

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	4	0	0	0	0	1
1-1.5	25	18	0	0	4	0	0
2-2.5	0	4	18	4	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

20

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	13	0	1	0	0	0	0
1-1.5	36	18	4	0	0	1	0
2-2.5	5	9	6	2	0	0	2
3-3.5	0	2	1	1	0	0	0
4-4.5	1	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

126

21

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	1	+	+	0	0	0
1-1.5	20	22	5	2	0	0	1
2-2.5	2	10	12	2	1	0	1
3-3.5	2	3	2	2	1	0	0
4-4.5	0	0	2	1	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

251

22

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	6	0	0	0	0	0
1-1.5	37	31	0	0	0	0	2
2-2.5	6	10	4	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

49

23

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	14	2	+	+	0	0	8
1-1.5	21	13	7	1	1	0	2
2-2.5	4	9	3	2	2	+	1
3-3.5	1	4	3	2	+	+	+
4-4.5	+	1	1	1	+	+	0
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

535

INSUFFICIENT DATA

28

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	0	+	0	0	1
1-1.5	11	9	5	1	1	+	3
2-2.5	4	8	10	5	2	1	4
3-3.5	4	4	6	4	2	1	1
4-4.5	1	1	2	3	2	1	0
5-7.5	0	0	1	+	1	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

375

29

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	0	0	0	0	0	0
1-1.5	13	6	2	0	2	0	0
2-2.5	4	11	13	6	4	0	2
3-3.5	2	4	6	6	0	0	2
4-4.5	0	0	0	2	6	0	0
5-7.5	0	0	0	0	2	2	0
8-9.5	0	0	0	0	0	2	0
>10	0	0	0	0	0	0	0

53

30

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	0
1-1.5	9	8	0	4	0	0	6
2-2.5	12	10	10	3	0	4	1
3-3.5	0	9	4	7	0	0	1
4-4.5	1	1	0	1	1	0	1
5-7.5	0	0	0	1	0	3	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

69

31

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	15	4	8	0	0	0	4
2-2.5	12	0	8	4	8	0	0
3-3.5	0	0	0	4	0	0	0
4-4.5	0	0	15	4	4	0	0
5-7.5	0	0	8	0	0	0	4
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

32

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	0	0	0	0	0	1
1-1.5	7	6	4	1	2	+	3
2-2.5	1	7	9	8	2	0	3
3-3.5	2	3	11	6	4	2	1
4-4.5	+	4	2	1	2	1	2
5-7.5	0	0	+	0	1	+	+
8-9.5	0	0	0	0	+	+	+
>10	0	0	0	0	0	0	0

226

41

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	2	0	0	0	0	0
1-1.5	4	2	0	0	0	0	0
2-2.5	4	17	15	8	4	0	2
3-3.5	0	2	8	2	2	2	4
4-4.5	2	4	2	2	4	0	4
5-7.5	0	2	4	0	2	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

53

INSUFFICIENT DATA

3

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	+	0	0	0	
1-1.5	7	7	4	1	+	+	
2-2.5	3	11	11	7	2	+	
3-3.5	+	3	9	7	2	+	
4-4.5	+	2	3	5	2	1	
5-7.5	0	+	+	1	1	1	
8-9.5	0	+	0	0	+	0	
>10	0	0	0	0	0	0	

4

INSUFFICIENT DATA

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Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

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4

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	26	1	+	+	0	0	4
1-1.5	26	18	6	1	1	1	2
2-2.5	2	4	3	1	+	0	+
3-3.5	+	+	+	0	+	+	+
4-4.5	0	+	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

406

5

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	1	0	1	0	0	4
1-1.5	15	21	7	1	0	0	4
2-2.5	0	17	7	1	0	1	2
3-3.5	0	3	1	0	0	2	1
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

135

6

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	38	3	1	+	0	0	6
1-1.5	72	14	3	1	+	+	+
2-2.5	1	4	3	1	+	+	+
3-3.5	+	+	+	+	+	0	0
4-4.5	0	+	+	+	+	+	0
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3706

7

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	13	2	1	+	0	0	8
1-1.5	23	18	9	3	1	1	7
2-2.5	4	4	3	2	+	0	1
3-3.5	0	0	+	+	+	+	+
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

801

8

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	1	+	+	0	0	3
1-1.5	14	17	7	2	1	+	4
2-2.5	4	10	9	5	1	1	3
3-3.5	1	2	2	4	1	1	1
4-4.5	+	+	+	+	+	+	+
5-7.5	0	+	0	+	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

903

9

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	48	3	1	+	0	0	15
1-1.5	17	8	2	+	+	+	2
2-2.5	1	2	1	0	0	0	0
3-3.5	0	0	+	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1674

13

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	0	0	0	0	0	1
1-1.5	30	14	9	3	1	0	1
2-2.5	9	9	4	6	0	0	1
3-3.5	0	0	3	1	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

69

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	31	12	0	2	0	0	21
1-1.5	14	10	2	5	0	0	2
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

42

16

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	0	0	0	0
1-1.5	7	15	8	1	1	0	2
2-2.5	1	10	22	7	1	1	1
3-3.5	1	0	1	4	2	0	1
4-4.5	0	0	1	0	0	1	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

134

17

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	1
1-1.5	9	16	8	0	0	1	3
2-2.5	7	14	21	3	3	0	0
3-3.5	2	0	4	2	1	0	0
4-4.5	0	0	0	1	0	0	0
5-7.5	0	0	0	1	1	0	1
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

117

18

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	2
1-1.5	10	5	2	2	2	2	2
2-2.5	5	22	12	5	0	2	0
3-3.5	2	7	2	0	0	0	0
4-4.5	0	0	0	7	0	0	0
5-7.5	0	0	0	0	0	2	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

41

22

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	4	0	0	0	0	0
1-1.5	37	31	0	0	0	0	2
2-2.5	6	10	4	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

49

23

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	14	2	+	+	0	0	6
1-1.5	21	13	7	1	1	0	2
2-2.5	4	9	3	2	2	+	1
3-3.5	1	4	3	2	+	+	+
4-4.5	+	1	1	1	+	+	0
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

536

24

INSUFFICIENT DATA

25

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	7	0	0	0	0	0	3
1-1.5	11	10	3	4	1	0	1
2-2.5	0	3	7	14	6	1	7
3-3.5	1	0	2	7	0	0	0
4-4.5	0	0	1	0	1	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

70

26

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	1	12	8	4	1	0	5
2-2.5	5	7	14	3	1	8	1
3-3.5	0	4	4	3	7	3	1
4-4.5	0	1	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

73

27

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	1	1	0	0	0	2
1-1.5	11	21	6	1	1	0	1
2-2.5	4	9	11	3	1	1	1
3-3.5	1	1	6	2	3	1	0
4-4.5	0	2	1	1	0	0	1
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

185

31

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	15	4	8	0	0	0	4
2-2.5	12	0	8	4	8	0	0
3-3.5	0	0	0	4	0	0	0
4-4.5	0	0	15	4	4	0	0
5-7.5	0	0	8	0	0	0	4
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

26

32

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	0	0	0	0	0	1
1-1.5	7	6	4	1	2	+	3
2-2.5	1	7	9	8	2	0	3
3-3.5	2	3	11	6	4	2	1
4-4.5	+	4	2	1	2	1	2
5-7.5	0	0	+	0	1	+	+
8-9.5	0	0	0	0	0	+	+
>10	0	0	0	0	0	0	0

226

33

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	+	0	0	0	1
1-1.5	7	7	4	1	+	+	2
2-2.5	3	11	11	7	2	+	3
3-3.5	+	3	9	7	2	+	1
4-4.5	+	2	3	5	2	1	0
5-7.5	0	+	+	1	1	1	+
8-9.5	0	+	0	0	+	0	0
>10	0	0	0	0	0	0	0

597

34

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	+	0	0	0	0	1
1-1.5	14	14	3	+	1	0	2
2-2.5	4	12	8	3	2	+	+
3-3.5	1	5	5	4	3	1	1
4-4.5	0	1	2	2	1	+	0
5-7.5	0	0	0	1	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

314

35

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	3	0	0	0	0	2
1-1.5	14	16	2	4	2	0	2
2-2.5	5	7	5	2	1	0	1
3-3.5	2	6	2	3	0	1	1
4-4.5	0	2	3	3	0	0	0
5-7.5	0	1	1	2	1	0	0
8-9.5	0	0	0	2	2	0	0
>10	0	0	0	0	0	0	0

130

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	2	0	0	0	0	0
1-1.5	4	2	0	0	0	0	0
2-2.5	4	17	15	8	4	0	2
3-3.5	0	2	6	2	2	2	4
4-4.5	2	4	2	2	4	0	4
5-7.5	0	2	4	0	2	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

53

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	5	7	6	9	0	0	2
2-2.5	2	23	9	2	0	0	5
3-3.5	0	2	0	0	0	0	12
4-4.5	0	7	7	0	0	0	2
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

43

44

INSUFFICIENT DATA

45

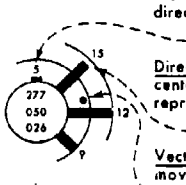
INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.

osite page) are based on all available data subjectively adjusted where bias was evident.

MAY

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).



Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

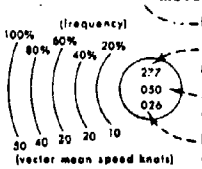
(Centers moving toward the N had a mean speed of 5 knots.)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

(35% of all tropical cyclones moved toward the NE.)

Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

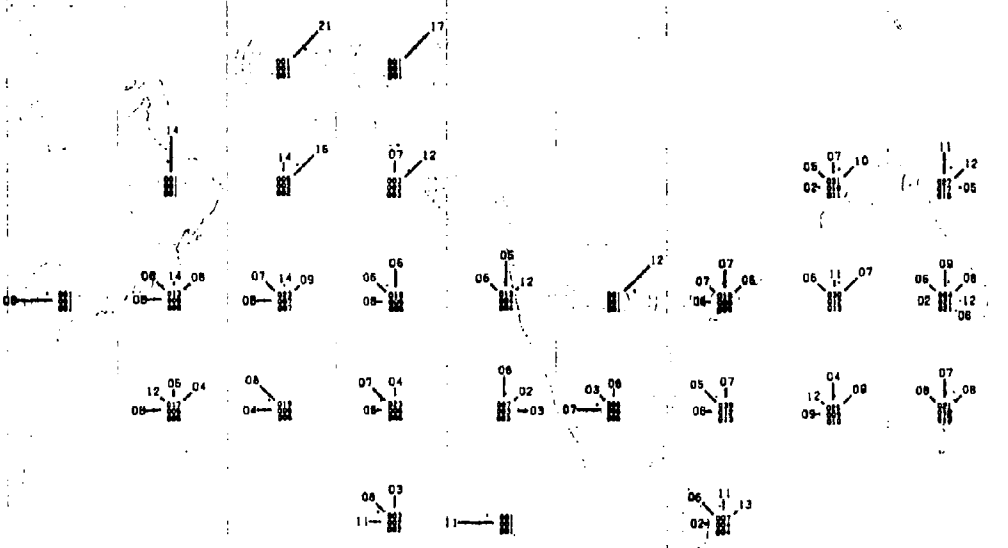
(Mean vector movement of all centers was toward 75° at 7 knots.)



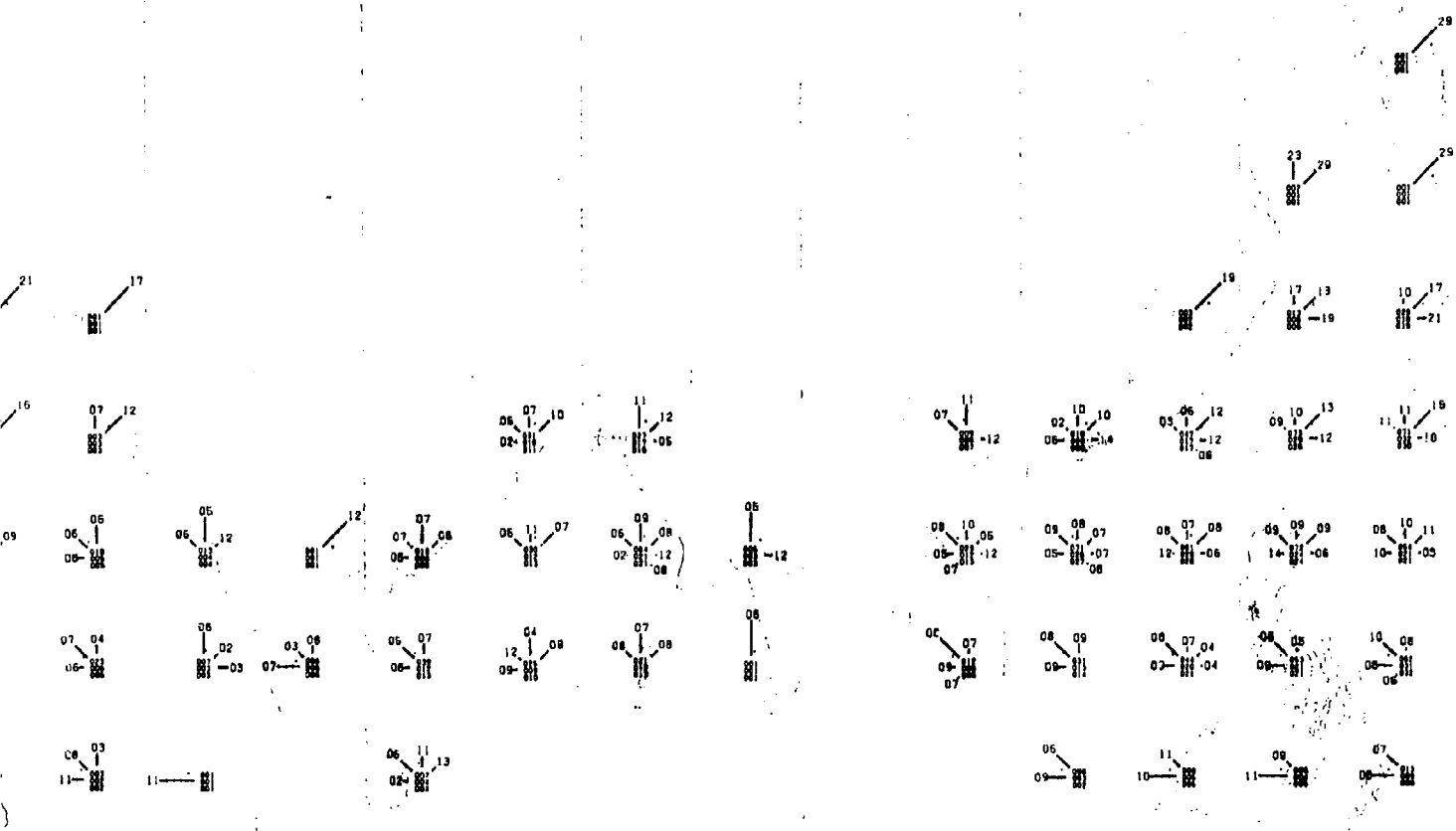
Statistics for this rose are based on 277 twelve hour movements.

50 individual storms were observed in the 5° X 5° area during the period of record.

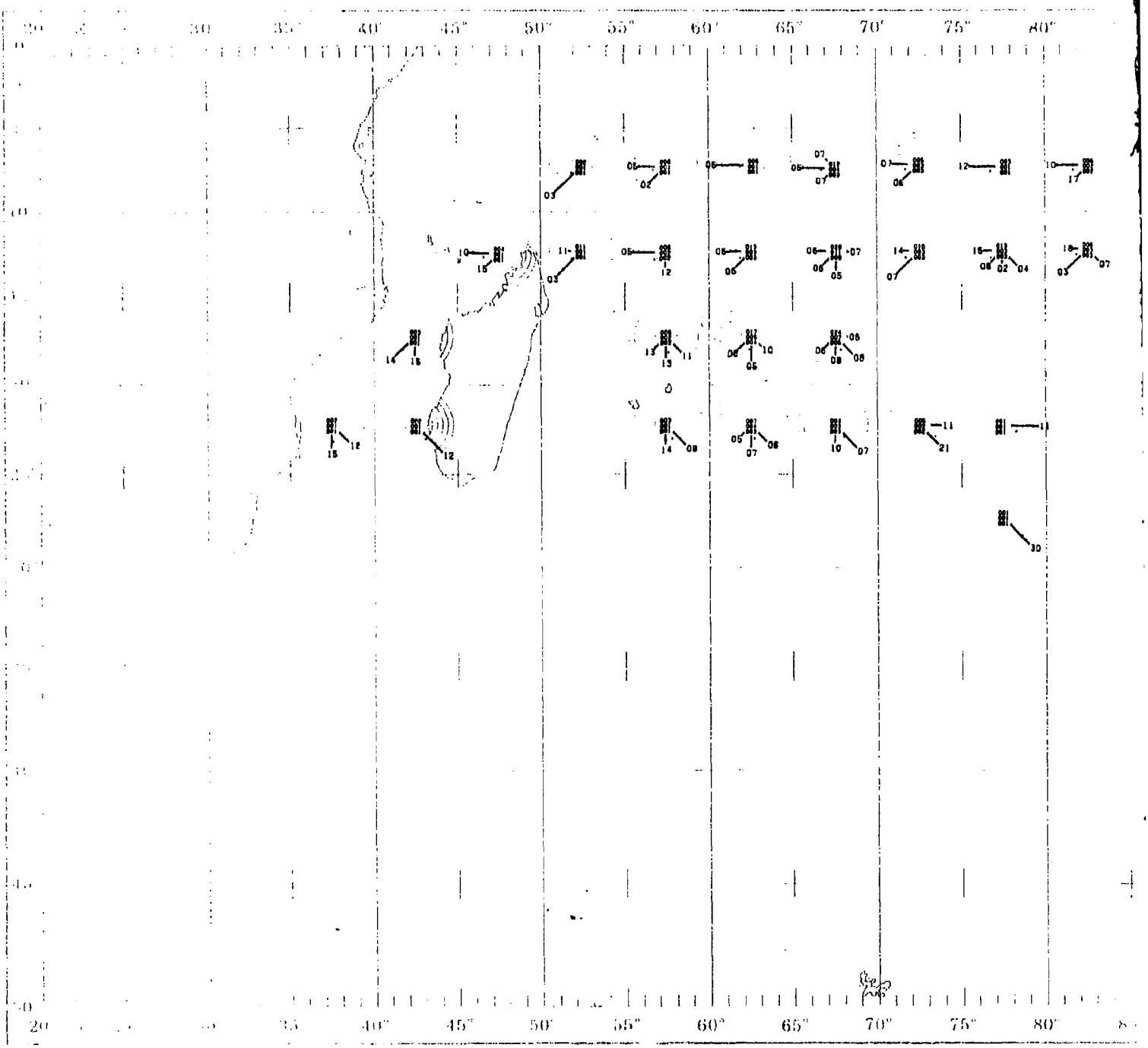
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.



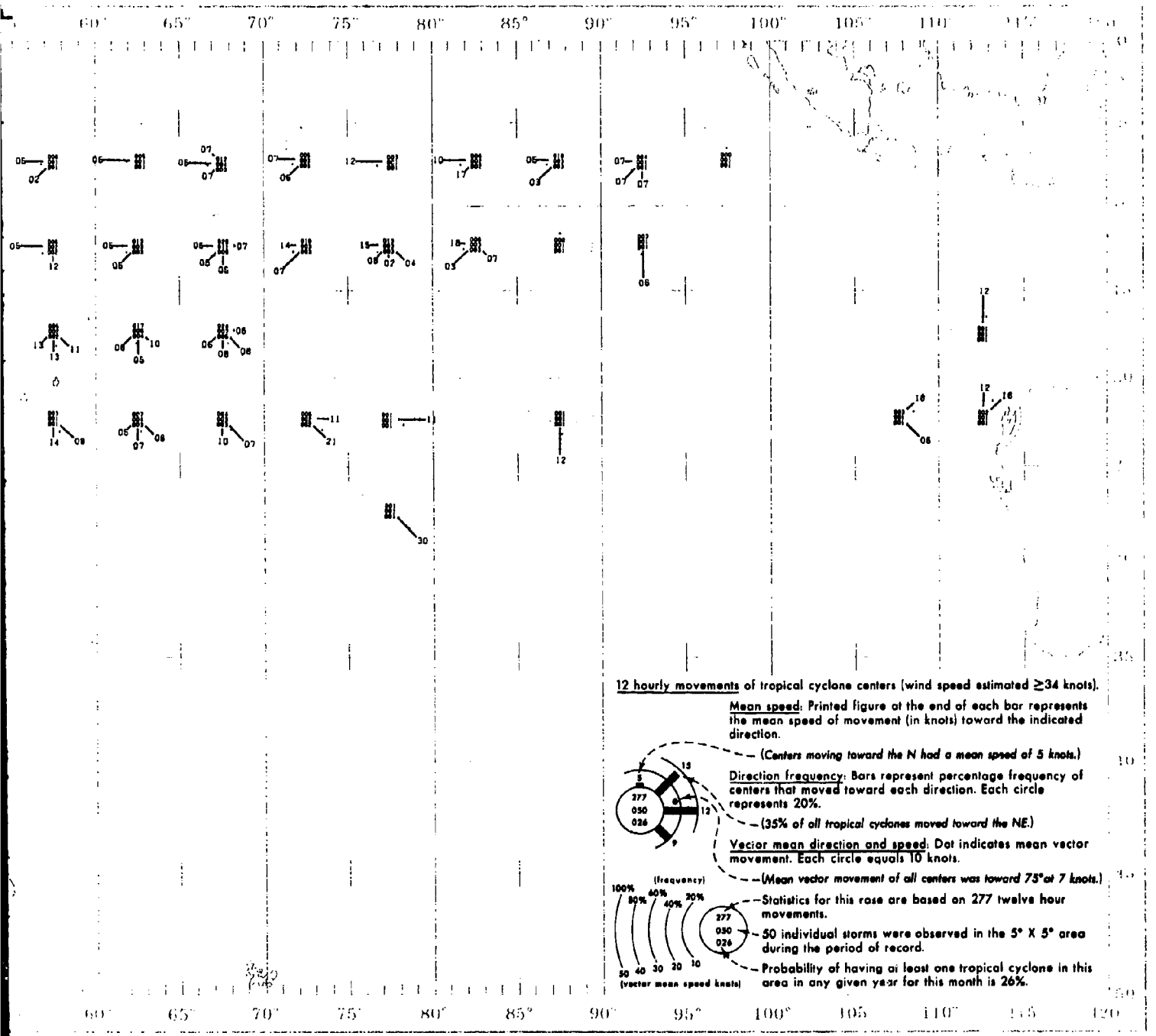
TROPICAL CYCLONE



TROPICAL CYCLONE



MAY



12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).

Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

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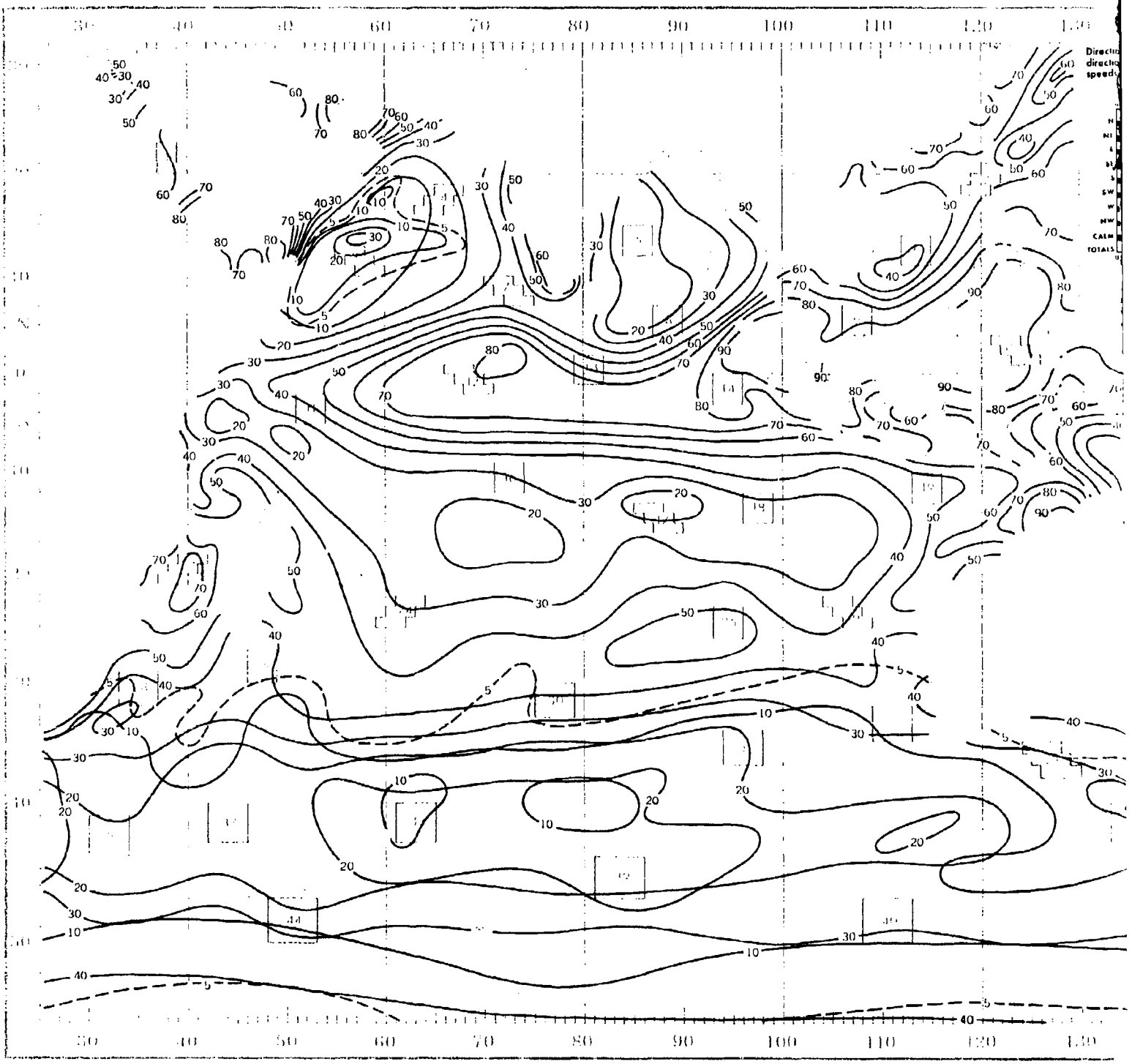
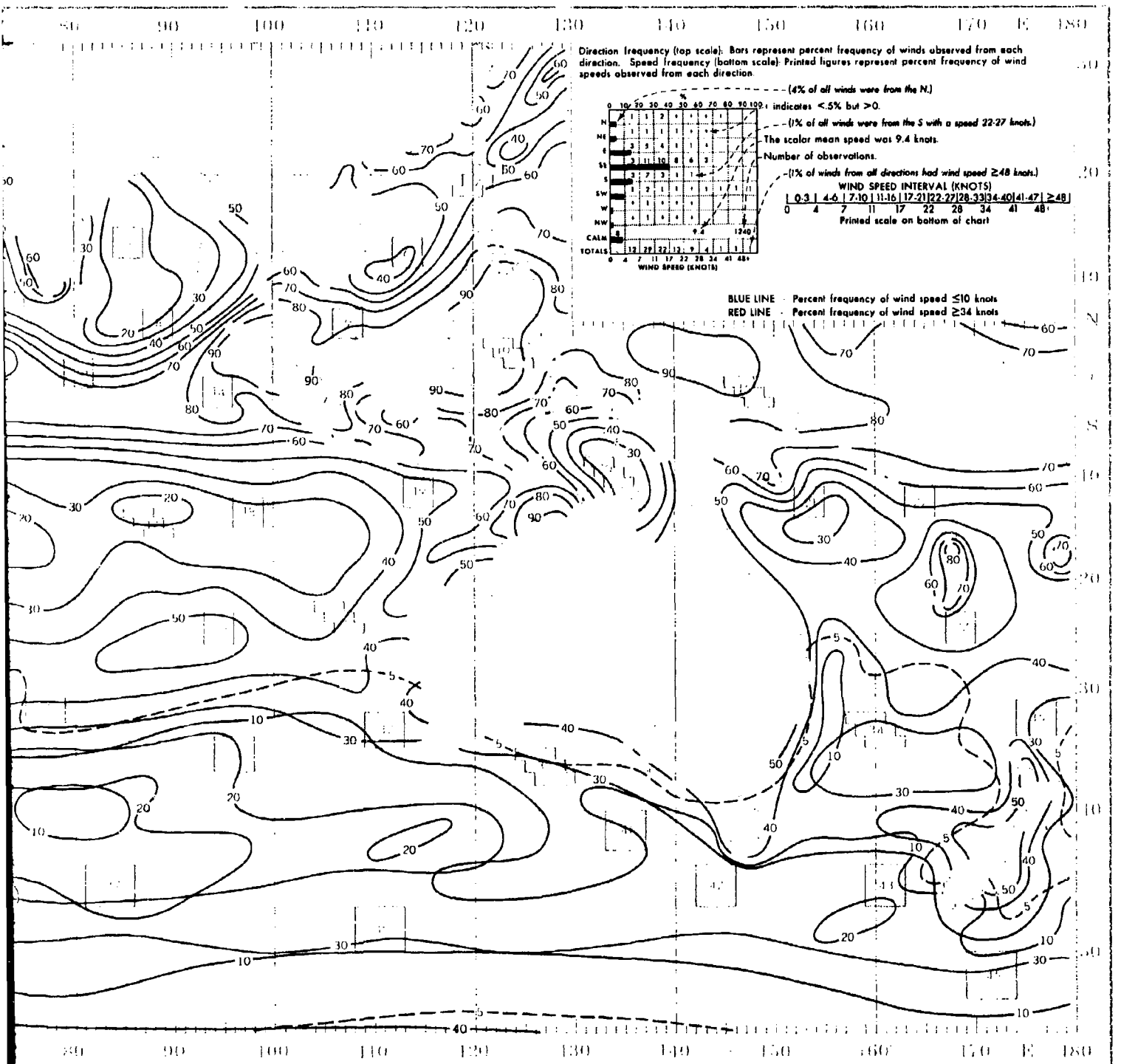
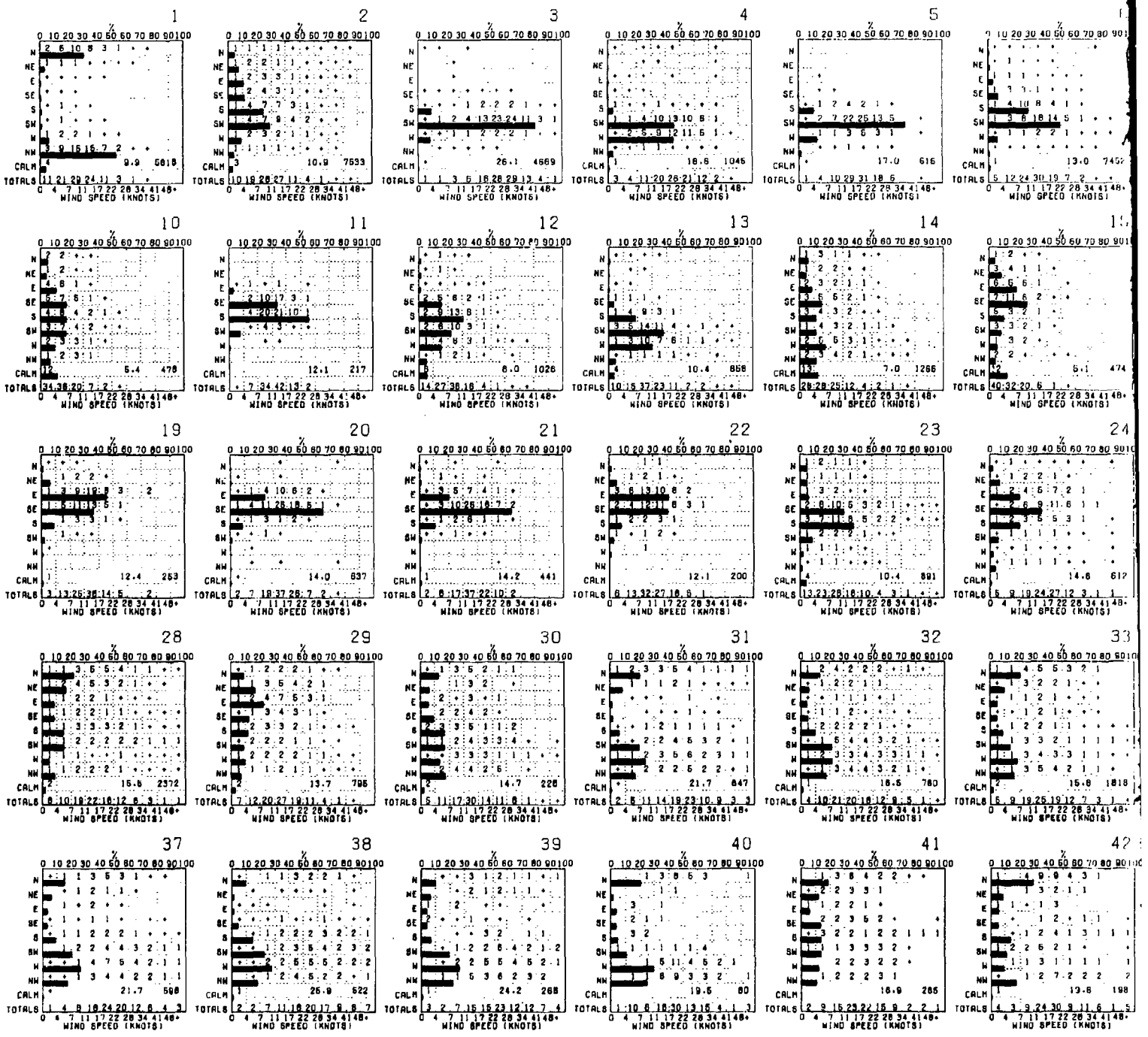
JUNE



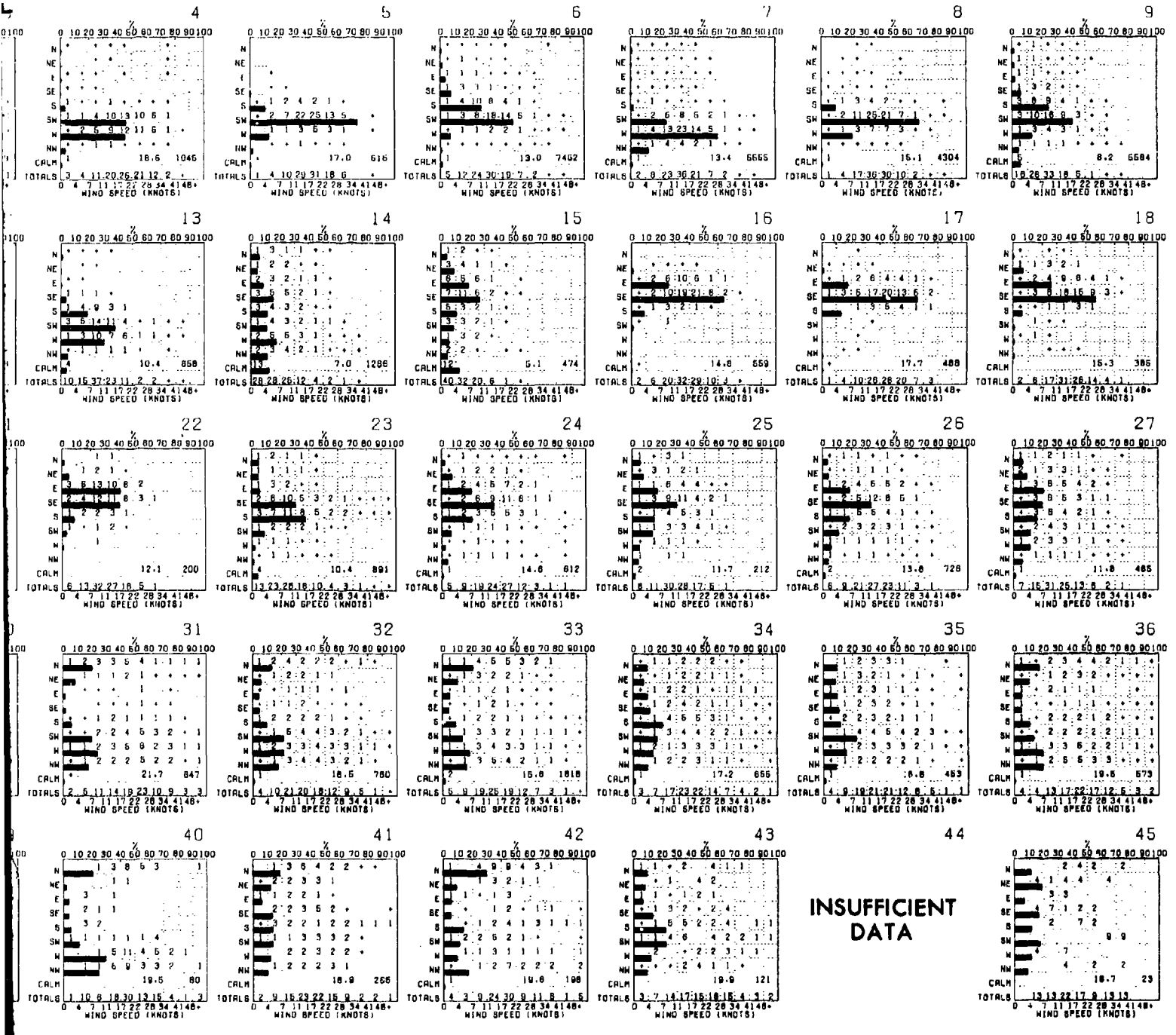
SURFACE WINDS



WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste



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JUNE

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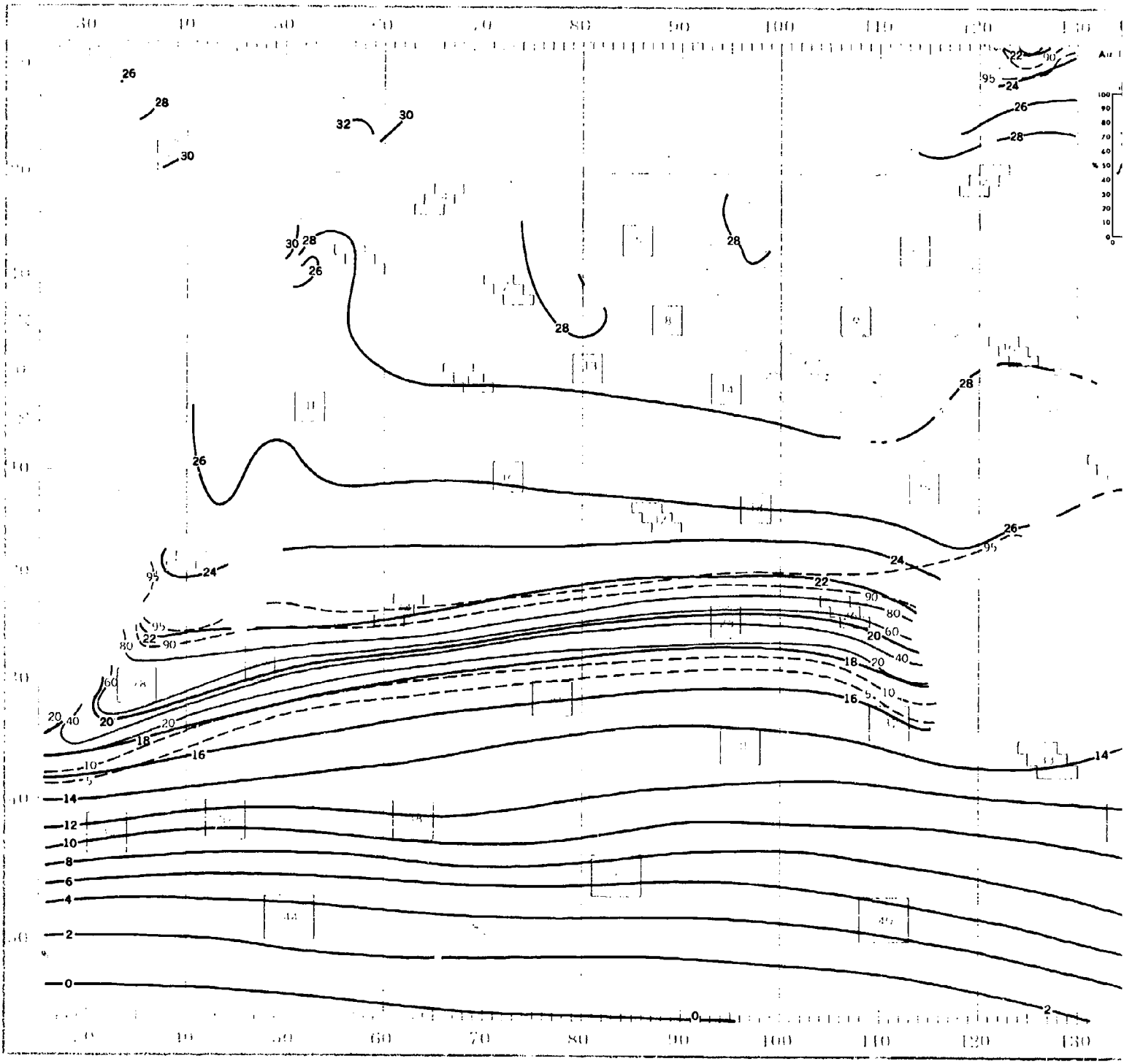
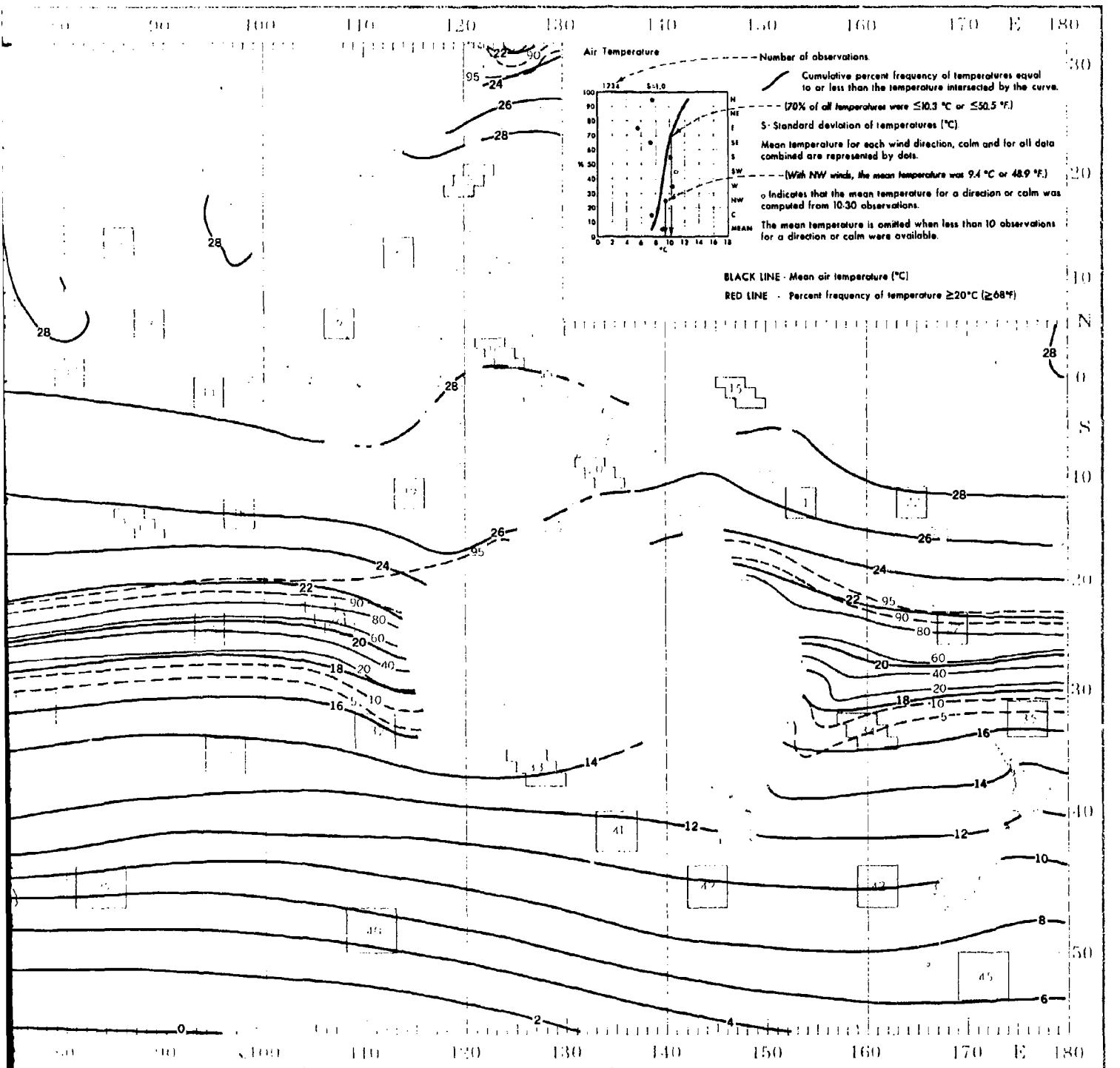
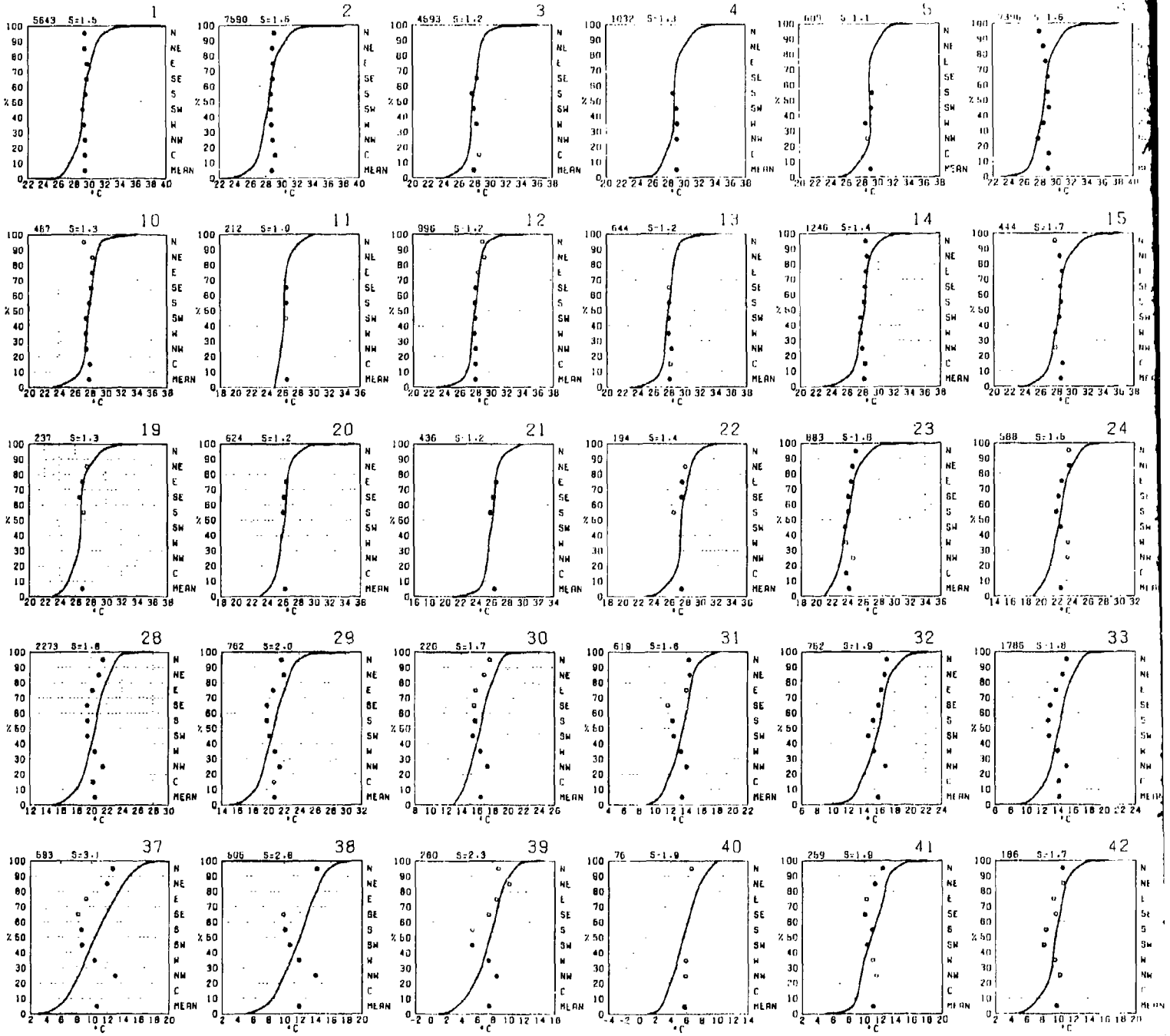


SURFACE AIR TEMPERATURE



SURFACE AIR TEMPERATURE



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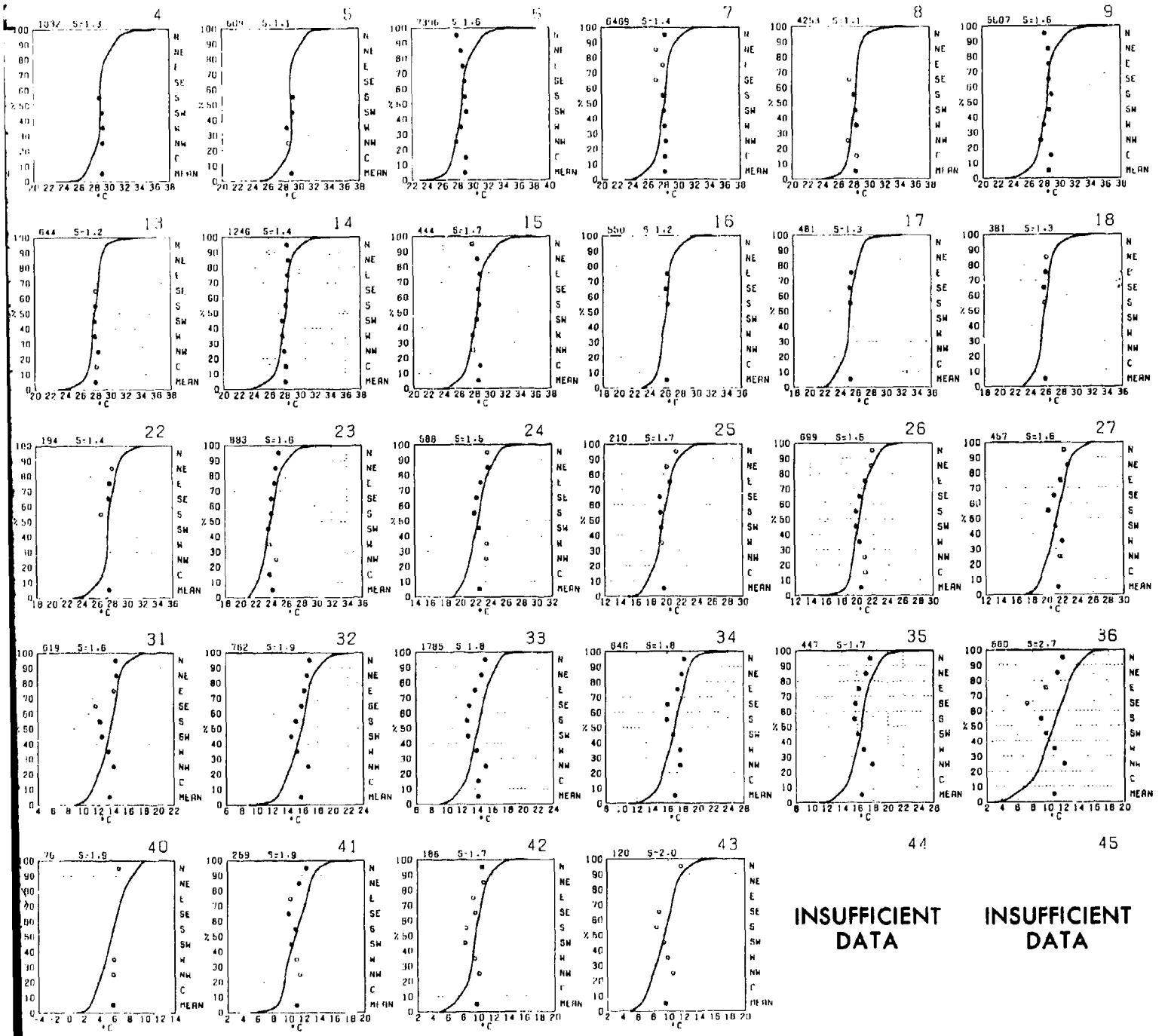
JUNE



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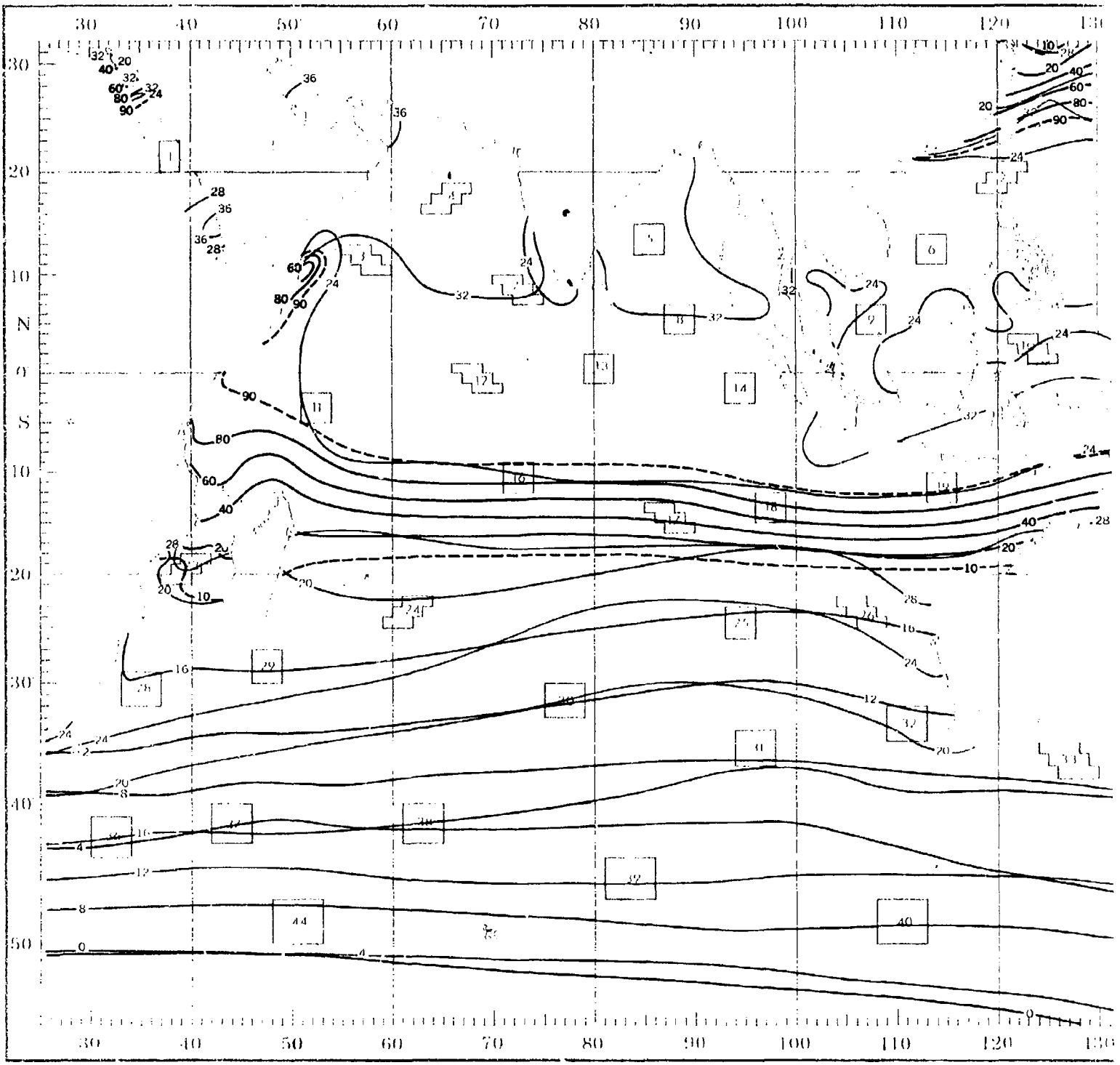
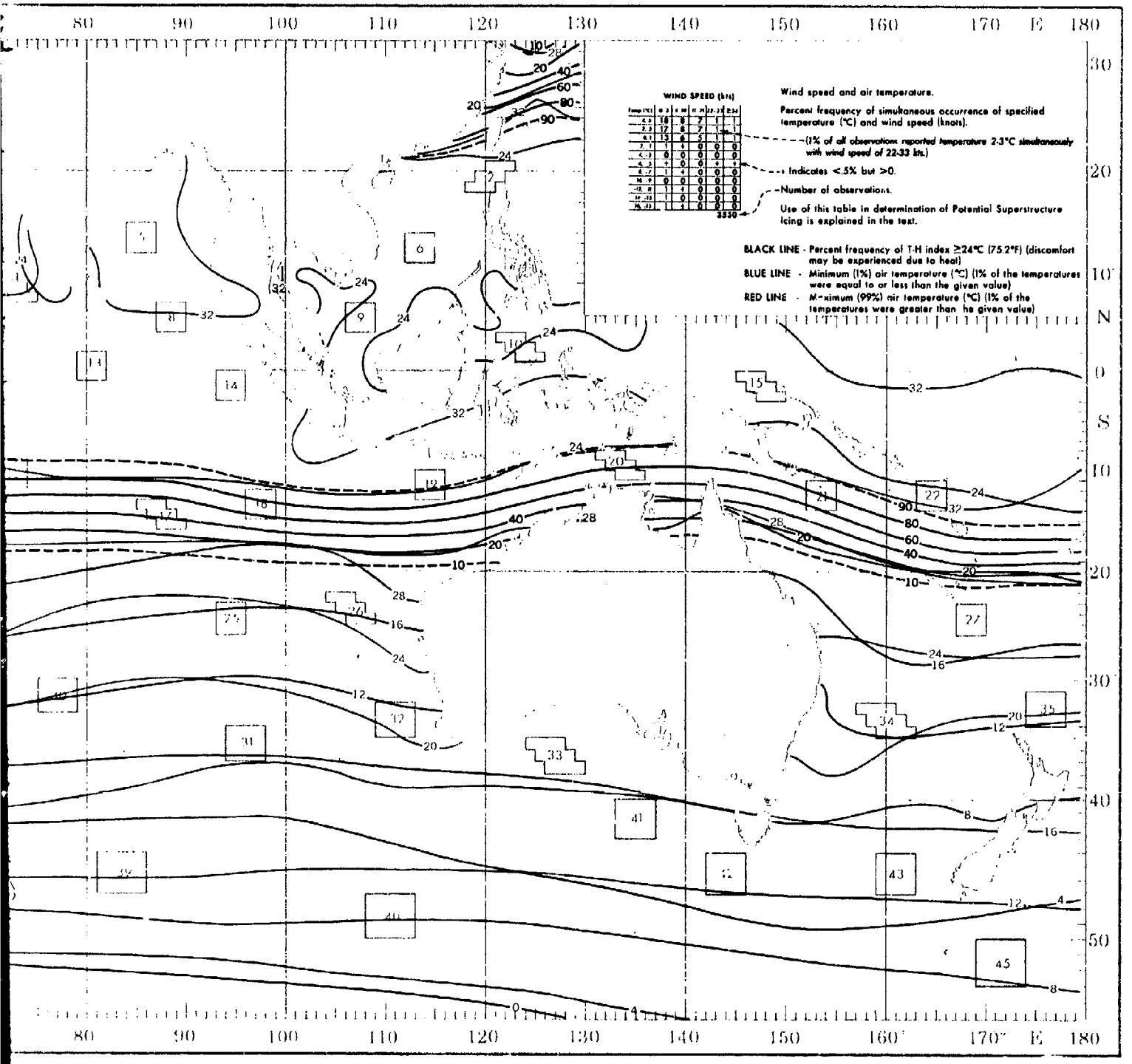
JUNE

TEMPERATURE I



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
38.39	0	+	0	0	0
36.37	+	+	+	0	0
34.35	+	1	+	+	0
32.33	1	4	3	+	0
30.31	5	18	13	2	+
28.29	5	23	17	2	+
26.27	1	3	2	+	0
24.25	0	+	+	+	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0

5665

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	+	0	0
34.35	+	+	+	0	0
32.33	1	2	2	+	0
30.31	3	13	9	1	+
28.29	5	24	19	3	+
26.27	1	6	7	2	+
24.25	+	1	1	+	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7598

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	+	+	+	+	0
30.31	+	1	3	3	1
28.29	+	2	13	32	8
26.27	+	1	6	20	9
24.25	0	+	+	1	1
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4633

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	+	0
32.33	+	1	2	1	0
30.31	1	4	14	7	1
28.29	2	8	28	24	2
26.27	0	1	2	2	+
24.25	0	+	0	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

1032

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	0	1	2	+	0
30.31	+	4	10	6	+
28.29	+	8	40	17	0
26.27	0	1	3	1	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

609

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
36.37	0	+	+	0
34.36	+	+	1	+
32.33	+	2	3	1
30.31	1	9	14	2
28.29	3	20	27	6
26.27	1	4	5	1
24.25	+	+	1	+
22.23	0	+	+	0
20.21	0	0	0	0
18.19	0	0	0	0
16.17	0	0	0	0

7

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	3	2	0	0	0
28.29	23	33	5	+	0
26.27	9	19	3	0	0
24.25	0	2	+	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

470

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	0	0	0
28.29	0	7	10	+	0
26.27	+	28	42	1	0
24.25	0	4	6	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

212

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	1	5	2	0	0
28.29	10	42	12	+	0
26.27	3	15	5	1	+
24.25	+	2	+	+	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1000

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	1	4	3	+	0
28.29	7	37	23	1	0
26.27	2	10	8	2	+
24.25	0	1	1	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

647

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	4	7	2	+	0
28.29	19	33	8	1	+
26.27	4	11	4	2	0
24.25	+	1	1	+	+
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1248

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
34.36	+	0	0	0
32.33	4	1	+	0
30.31	8	7	+	0
28.29	21	32	4	+
26.27	7	11	2	0
24.25	1	1	0	0
22.23	0	0	0	0
20.21	0	0	0	0
18.19	0	0	0	0
16.17	0	0	0	0
14.15	0	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	0	2	2	0	0
28.29	1	9	6	0	0
26.27	2	22	41	3	0
24.25	0	5	1	2	2
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

237

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	1	0	0
28.29	+	4	6	2	0
26.27	2	18	42	6	+
24.25	+	4	11	2	0
22.23	0	+	3	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

624

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	0	+	+	0
28.29	1	5	10	1	0
26.27	1	16	38	8	0
24.25	0	5	11	2	0
22.23	0	0	1	0	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

438

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	1	0	0
30.31	1	3	3	0	0
28.29	1	22	18	2	0
26.27	2	16	23	4	0
24.25	3	1	1	1	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

194

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	1	1	0	0
26.27	3	9	5	1	+
24.25	7	23	12	3	+
22.23	5	15	8	3	+
20.21	+	1	1	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

904

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
28.29	0	+	0	0
26.27	+	1	1	0
24.25	1	10	11	2
22.23	2	11	26	8
20.21	1	6	10	6
18.19	+	1	1	+
16.17	0	0	0	0
14.15	0	0	0	0
12.13	0	0	0	0
10.11	0	0	0	0
8.9	0	0	0	0

5

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	+	+	0	0
24.26	1	1	1	1	+
22.23	2	8	12	5	1
20.21	3	13	17	7	2
18.19	2	7	8	3	1
16.17	+	1	2	2	1
14.15	0	+	+	+	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

2279

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	0	0	+
26.27	+	+	+	+	0
24.25	1	2	3	1	+
22.23	3	9	13	5	+
20.21	2	13	16	6	+
18.19	1	7	11	2	+
16.17	+	1	2	1	0
14.15	0	0	0	0	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

764

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	1	1	+	0
18.19	1	8	12	4	+
16.17	4	14	17	7	1
14.15	+	5	14	8	1
12.13	0	+	2	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

226

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	+	0	+	0	0
16.17	+	2	4	4	2
14.15	1	5	17	13	6
12.13	1	8	11	12	4
10.11	0	1	2	3	2
8.9	0	0	0	1	1
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

619

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	0	1	1	+	0
18.19	+	5	6	3	1
16.17	1	12	16	8	2
14.15	1	10	10	7	1
12.13	1	2	4	3	2
10.11	0	0	+	+	+
8.9	0	+	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

752

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
20.21	+	0	+	+
18.19	+	+	1	1
16.17	1	6	12	5
14.15	2	11	18	7
12.13	2	8	10	4
10.11	+	2	3	1
8.9	0	0	+	+
6.7	0	0	0	0
4.5	0	0	0	0
2.3	0	0	0	0
0.1	0	0	0	0

17

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	+	0
16.17	0	+	3	3	1
14.15	+	2	5	5	1
12.13	0	2	10	5	2
10.11	1	3	11	6	3
8.9	+	4	8	5	3
6.7	+	1	4	5	2
4.5	+	+	+	1	1
2.3	0	0	0	+	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

593

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	1	2	3	2
14.15	0	2	7	9	5
12.13	1	3	8	9	5
10.11	1	2	7	8	6
8.9	0	1	4	5	4
6.7	0	+	1	3	+
4.5	0	0	0	+	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

506

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	0	2	0
10.11	+	+	7	8	6
8.9	1	3	12	9	6
6.7	2	3	7	9	8
4.5	+	2	2	4	3
2.3	0	0	2	3	1
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

260

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.9	0	1	12	11	1
6.7	1	4	16	11	1
4.5	0	4	14	5	5
2.3	0	3	8	3	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

76

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	0	1	0
14.15	0	3	5	3	0
12.13	+	7	17	8	2
10.11	1	9	13	5	2
8.9	+	6	8	5	+
6.7	0	1	0	+	0
4.5	0	0	+	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

259

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
14.15	0	0	2	0
12.13	0	1	7	2
10.11	2	4	24	10
8.9	1	8	12	6
6.7	1	0	7	2
4.5	0	0	1	1
2.3	0	0	0	0
0.1	0	0	0	0
-2.-1	0	0	0	0
-4.-3	0	0	0	0
-6.-5	0	0	0	0

1

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust

:RATURE

JUNE

4

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	+	0
32.33	+	1	2	1	0
30.31	1	4	14	7	1
28.29	2	8	28	24	2
26.27	0	1	2	2	+
24.25	0	+	0	+	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

1032

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	0	1	2	+	0
30.31	+	4	16	6	+
28.29	+	8	40	17	0
26.27	0	1	3	1	0
24.25	0	0	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

609

6

WIND SPLED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.37	0	+	+	0	0
34.35	+	+	1	+	0
32.33	+	2	3	+	+
30.31	1	9	14	2	+
28.29	3	20	27	6	+
26.27	1	4	6	1	+
24.25	+	+	1	+	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7398

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	0	0
32.33	+	1	1	+	0
30.31	+	5	7	1	+
28.29	1	19	34	4	+
26.27	+	6	13	3	+
24.25	+	1	2	1	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

6470

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	+	0
32.33	+	+	+	+	0
30.31	+	2	7	1	0
28.29	1	16	49	8	+
26.27	+	3	9	2	+
24.25	+	+	1	+	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

4255

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	0	+	0	0
34.35	+	+	+	0	0
32.33	1	2	1	+	0
30.31	3	11	4	+	0
28.29	10	36	12	1	0
26.27	1	9	5	+	+
24.25	+	1	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5516

13

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	1	4	3	+	0
28.29	2	10	8	2	+
26.27	0	1	1	+	+
24.25	0	0	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

647

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	4	7	2	+	0
28.29	19	33	8	1	+
26.27	4	11	4	2	0
24.25	+	1	1	+	+
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

1248

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	0	0	0	0
32.33	4	1	+	0	0
30.31	8	7	+	0	0
28.29	21	32	4	+	0
26.27	7	11	2	0	0
24.25	1	1	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

447

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	1	0	0
28.29	+	4	6	1	0
26.27	1	16	41	9	0
24.25	+	6	12	3	+
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

551

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	0	2	3	1	0
26.27	1	7	22	9	+
24.25	+	5	27	15	2
22.23	0	+	2	2	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

482

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	1	0	0
28.29	1	1	6	1	0
26.27	1	16	32	11	0
24.25	0	5	17	7	1
22.23	0	+	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

381

22

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	1	1	0	0
30.31	1	3	3	0	0
28.29	1	22	18	2	0
26.27	2	16	23	4	0
24.25	3	1	1	1	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

194

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	1	1	0	0
26.27	3	9	6	1	+
24.26	7	23	12	3	+
22.23	5	15	8	3	+
20.21	+	1	1	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

904

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	0	0	0
26.27	+	1	1	0	0
24.25	1	10	11	2	+
22.23	2	11	26	8	1
20.21	1	6	10	6	+
18.19	+	1	1	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

588

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	1	+	0	0
22.23	1	6	5	0	0
20.21	5	15	15	3	0
18.19	2	15	16	3	0
16.17	+	3	5	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	+	0	0

213

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	2	2	+	0
22.23	2	8	11	2	0
20.21	3	15	25	6	+
18.19	+	5	11	4	1
16.17	0	0	1	+	+
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

689

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	+	1	1	0	+
24.25	+	3	4	0	+
22.23	4	19	16	3	0
20.21	3	17	16	3	+
18.19	0	7	3	2	0
16.17	0	+	+	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

459

31

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	+	0	+	0	0
16.17	+	2	4	4	2
14.15	1	5	17	13	6
12.13	1	8	11	12	4
10.11	0	1	2	3	2
8.9	0	0	0	1	1
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

619

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	0	1	1	+	0
18.19	+	5	6	3	1
16.17	1	12	16	8	2
14.15	1	10	10	7	1
12.13	1	2	4	3	2
10.11	0	0	+	+	+
8.9	0	+	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

782

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	+	+	0
18.19	+	+	1	1	0
16.17	1	6	12	5	1
14.15	2	11	18	7	1
12.13	2	8	10	4	2
10.11	+	2	3	1	1
8.8	0	0	+	+	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

1788

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	0	+	0	0
22.23	0	0	+	0	0
20.21	+	1	2	1	+
18.19	2	8	17	8	2
16.17	1	10	17	8	3
14.15	+	5	6	3	1
12.13	0	+	1	+	1
10.11	0	0	+	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

647

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	1	+	0
20.21	+	1	+	+	0
18.19	1	6	11	6	1
16.17	2	14	19	11	4
14.15	+	8	9	3	1
12.13	+	1	+	1	1
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

447

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	0	0	0
16.17	+	0	2	1	0
14.15	+	2	6	4	2
12.13	1	4	11	7	1
10.11	1	4	10	10	4
8.8	1	5	8	5	1
6.7	1	1	3	2	1
4.5	+	1	1	1	1
2.3	0	0	+	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

560

40

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
8.9	0	1	12	11	1
6.7	1	4	16	11	1
4.5	0	4	14	5	5
2.3	0	3	8	3	0
0.1	0	0	0	0	0
-2.-1	0	0	[illegible]	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
[illegible]	0	0	0	0	0

76

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	0	1	0
14.16	0	3	5	3	0
12.13	+	7	17	8	2
10.11	1	9	13	5	2
8.9	+	6	8	5	+
6.7	0	1	0	+	0
4.5	0	0	+	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

259

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.16	0	0	2	0	0
12.13	0	1	7	2	1
10.11	2	4	24	10	5
8.9	1	6	12	6	4
6.7	1	0	7	2	0
4.5	0	0	1	1	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

188

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.16	0	0	1	1	0
12.13	1	4	8	5	0
10.11	2	9	16	7	1
8.9	1	7	10	14	3
6.7	1	1	0	6	6
4.5	0	0	0	0	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

122

44

INSUFFICIENT DATA

45

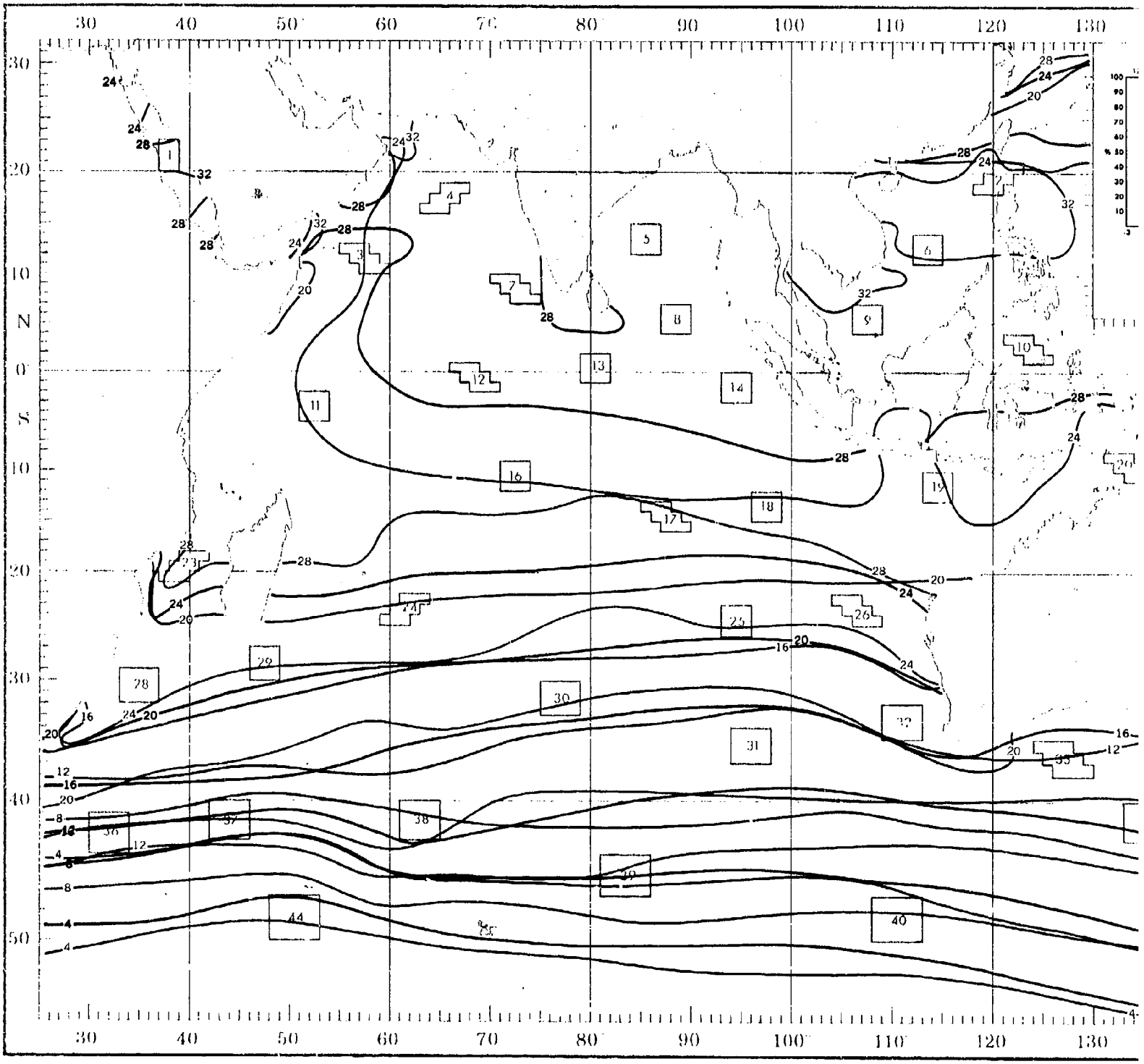
WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	0	4	0	0
8.9	0	13	28	4	4
6.7	0	13	9	13	0
4.5	0	0	0	4	0
2.3	0	0	0	0	4
0.1	0	0	0	0	4
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

23

ive compilation of available data for specified areas without regard to suspected biases.

site page) are based on all available data subjectively adjusted where bias was evident.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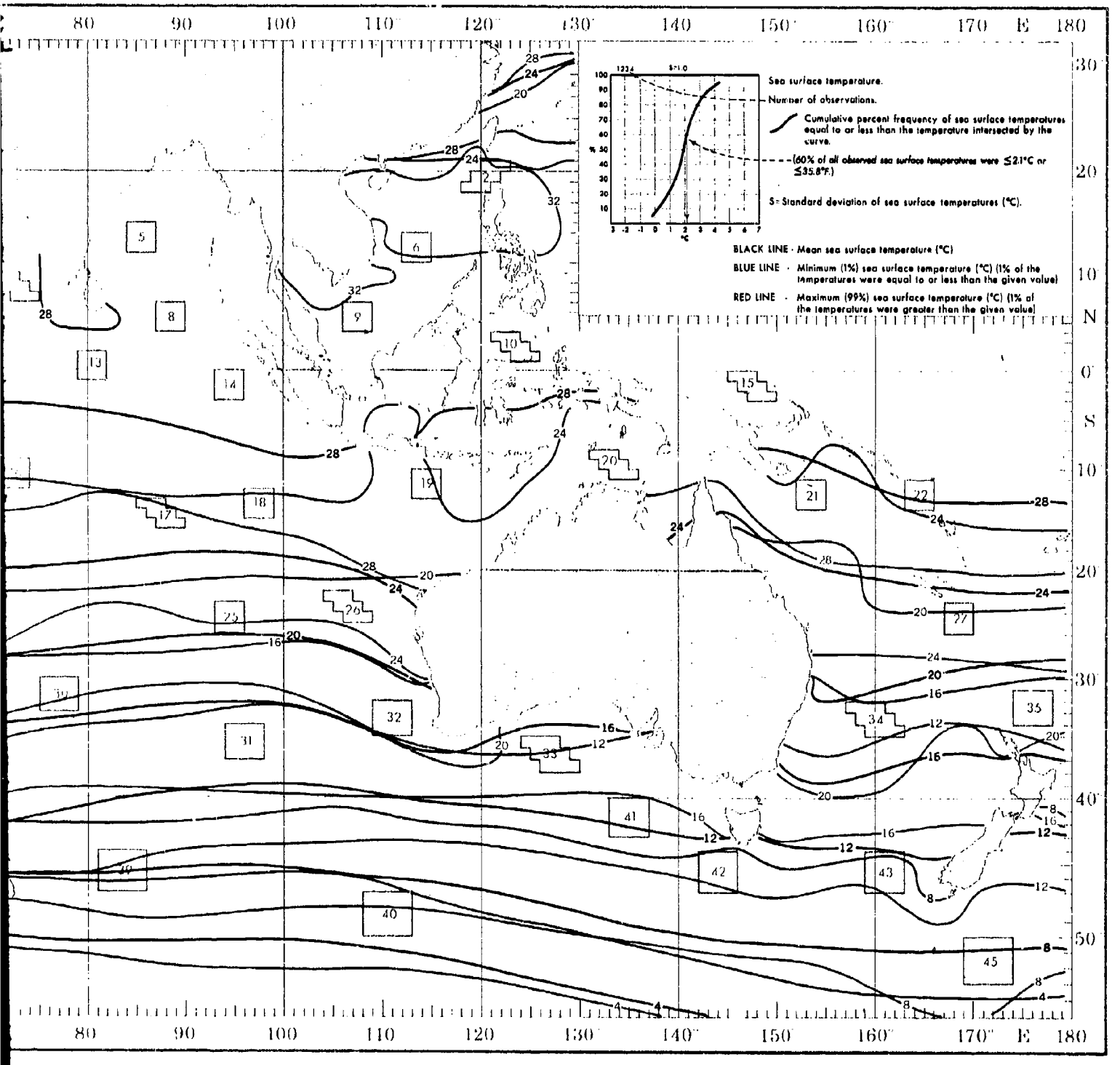
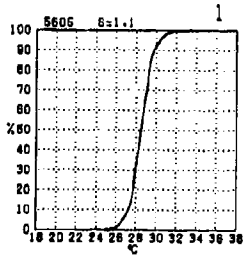
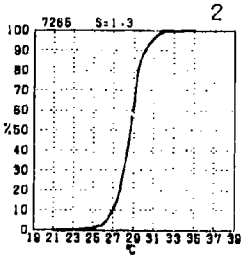
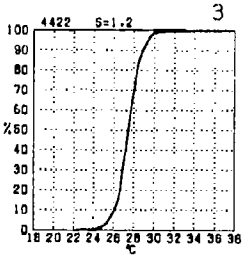
SEA SURFACE TEMPERATURE

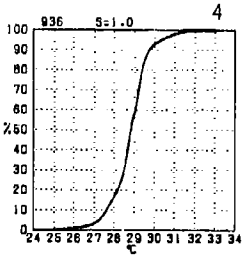


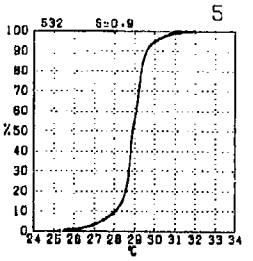
SEA SURFACE TEMPERATURE

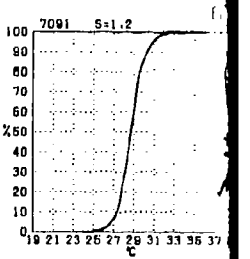


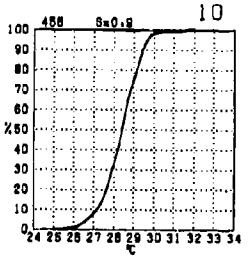


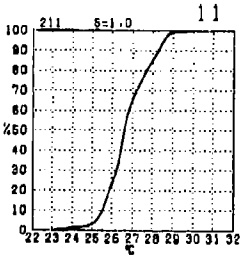


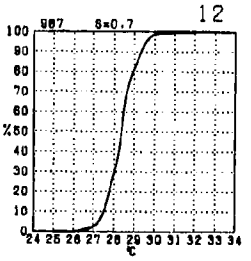


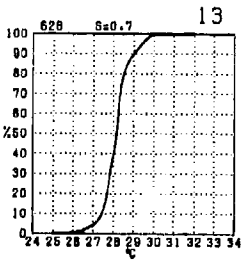


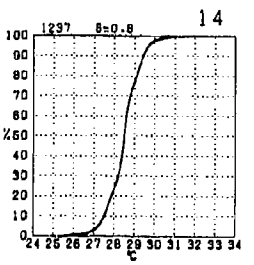


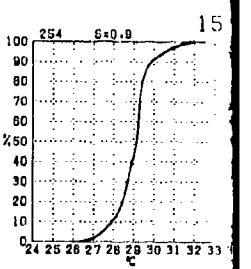


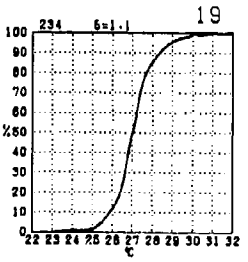


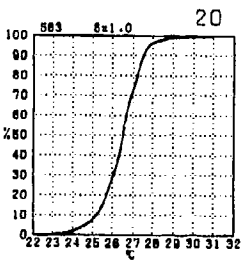


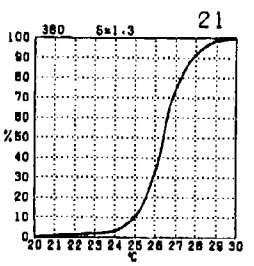


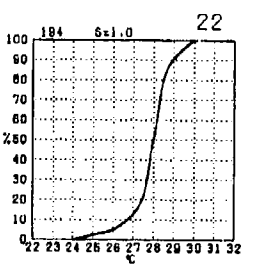


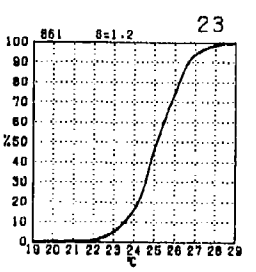


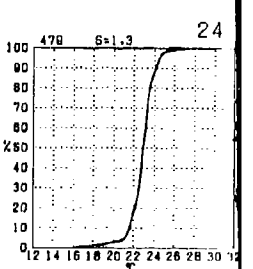


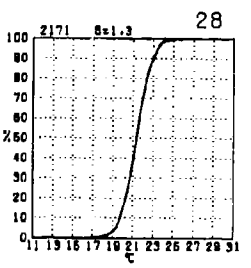


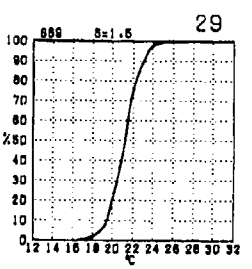


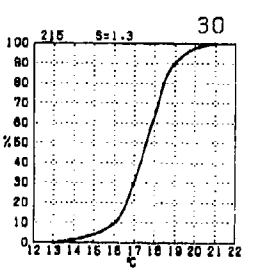


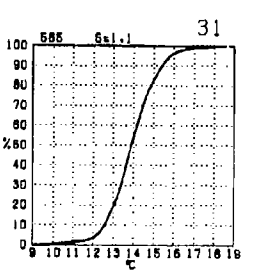


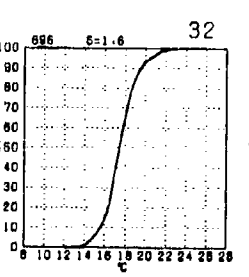


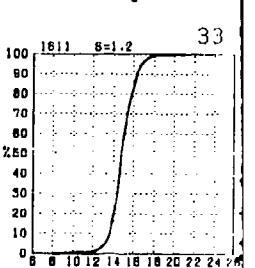


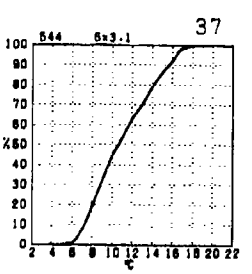


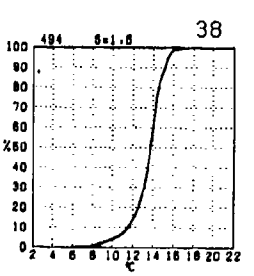


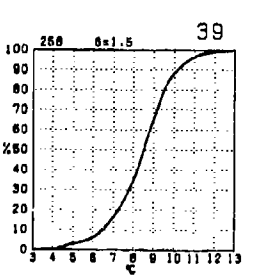


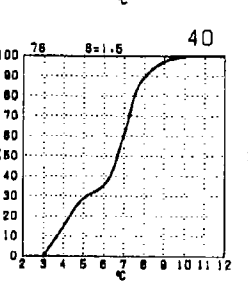


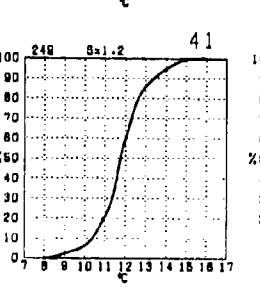


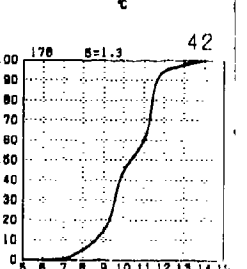












Graphs represent the objective compilation of available data for specified areas without re
The **isopleth** analyses (opposite page) are based on all available data subjectively adjuste

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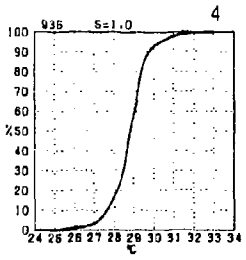

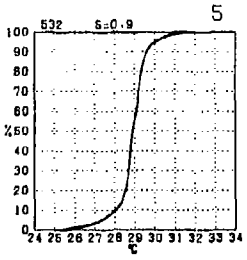

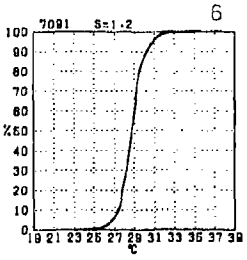

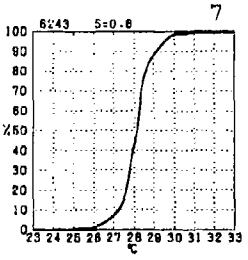

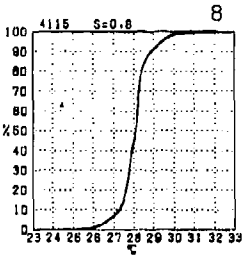

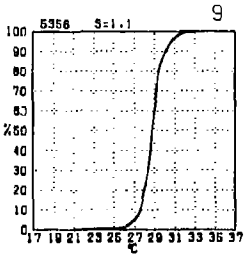

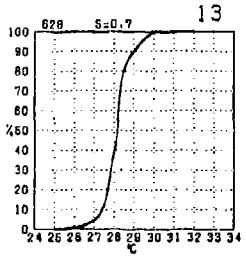

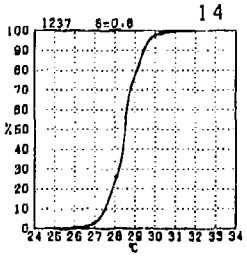

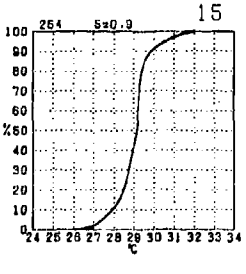

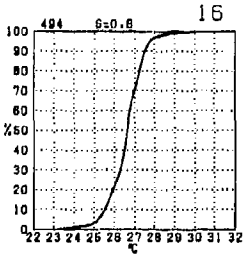

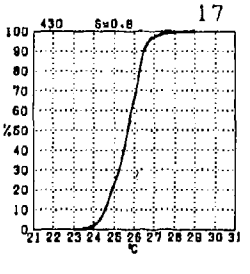

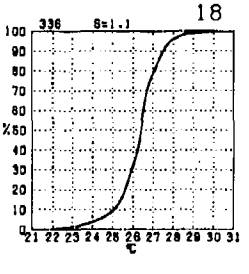

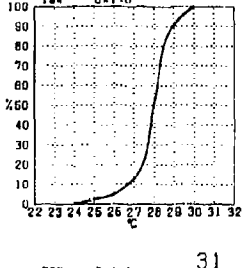

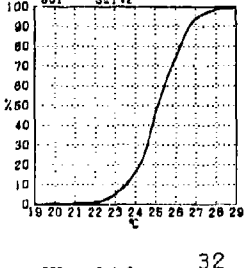

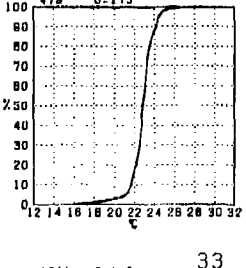

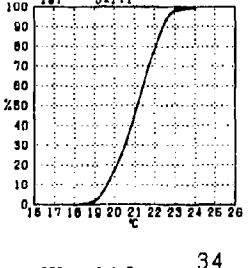

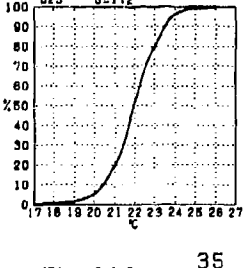

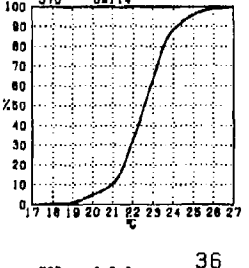

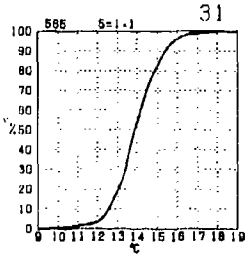

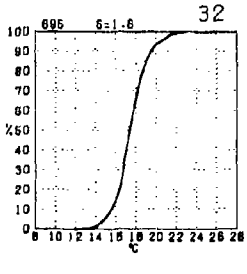

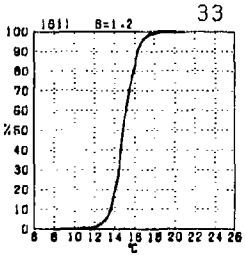

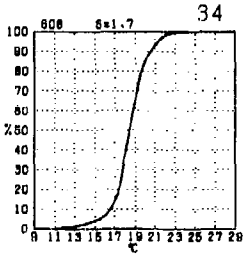

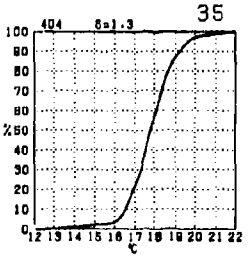

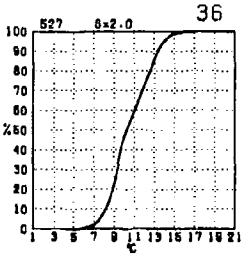

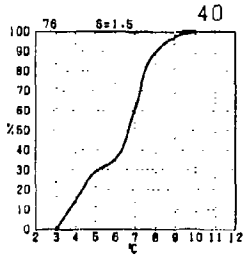

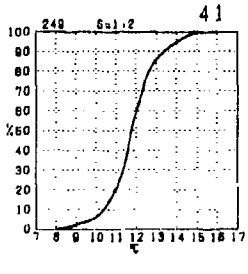

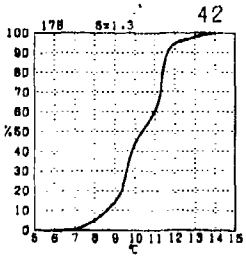

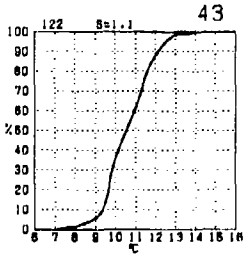

44

INSUFFICIENT DATA

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INSUFFICIENT DATA

jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

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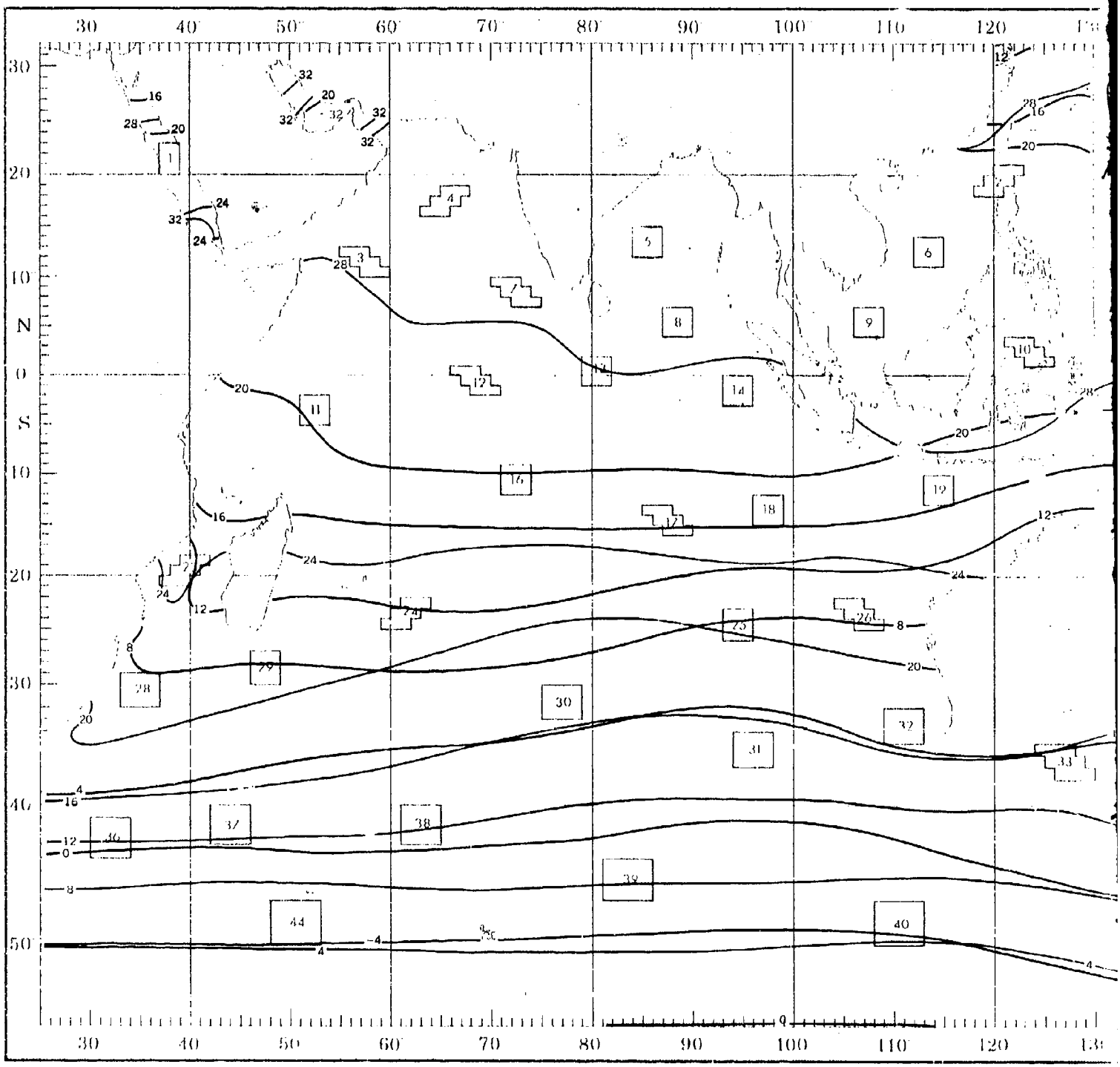
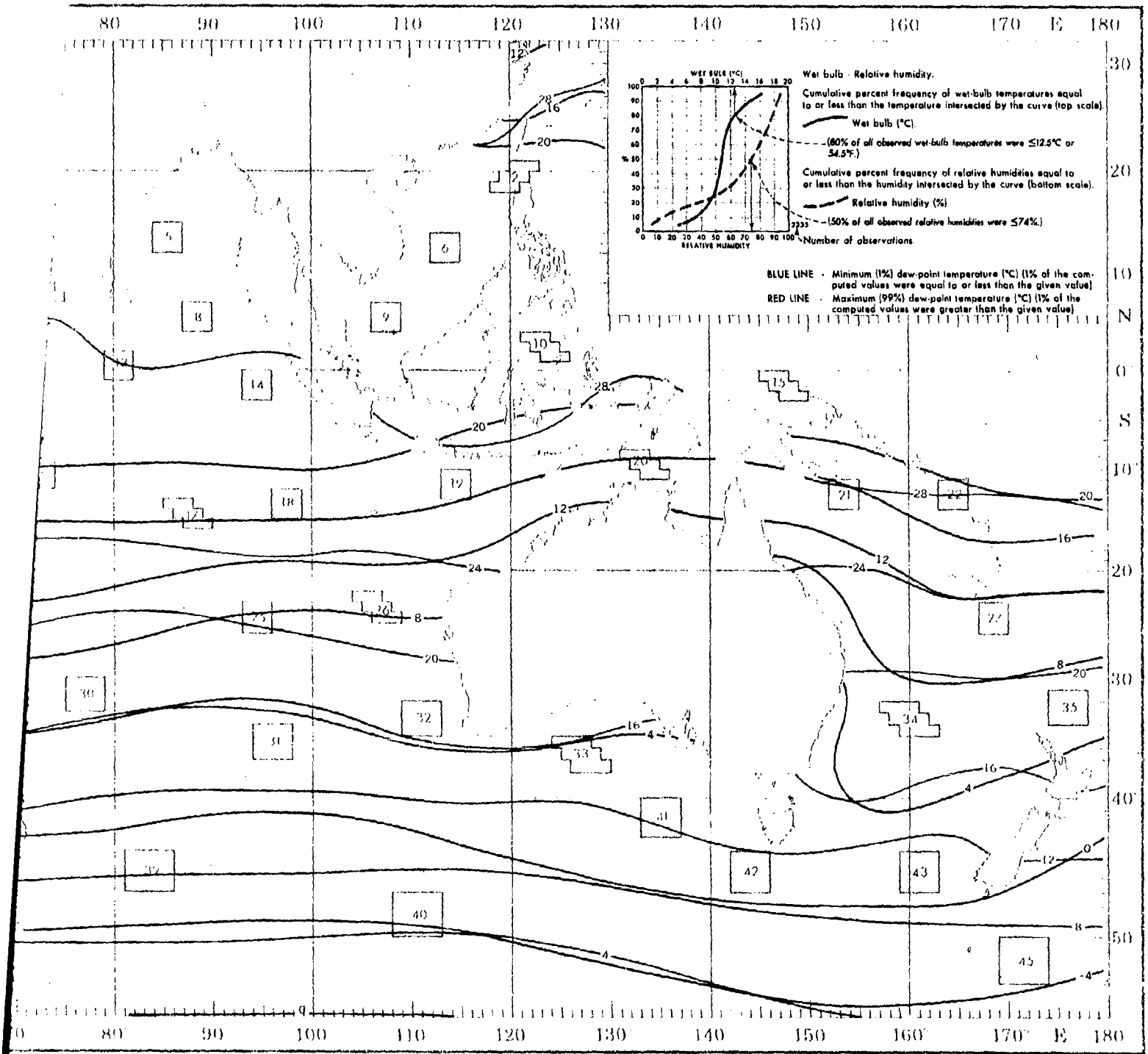


HUMIDITY


80
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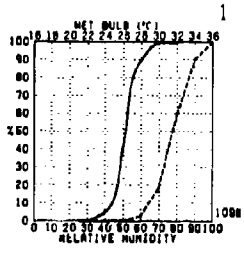
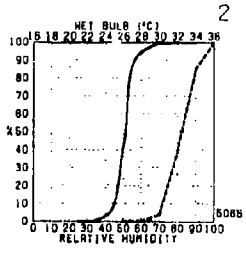
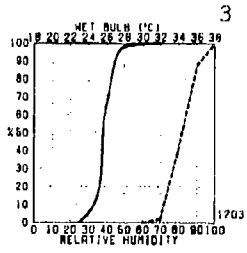
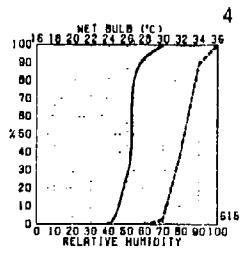
WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

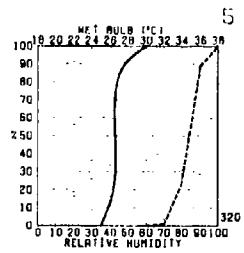
WET BULB AND RELATIVE HUMIDITY

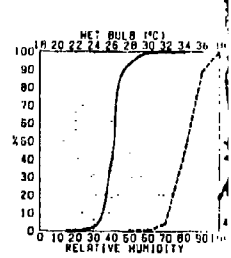


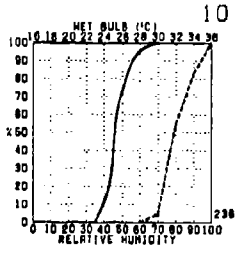


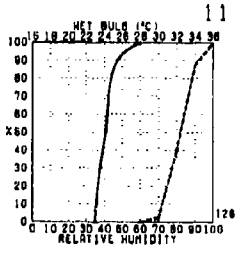


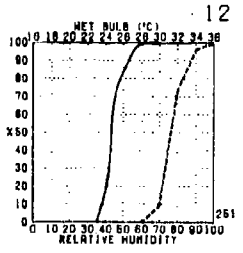


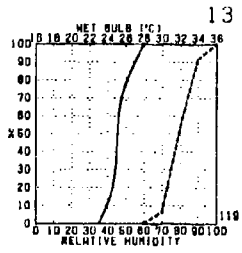


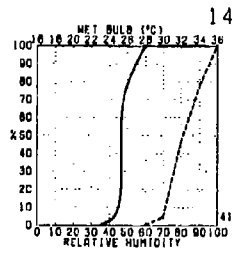


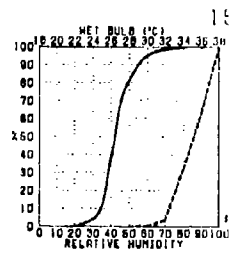


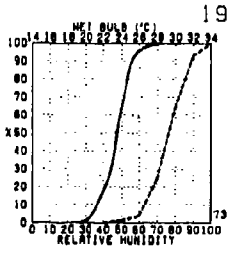


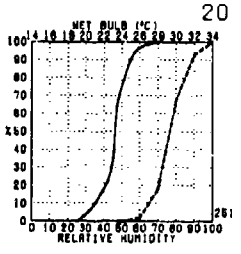


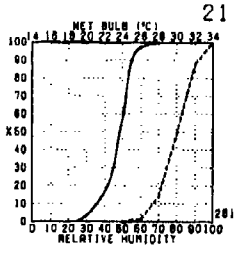


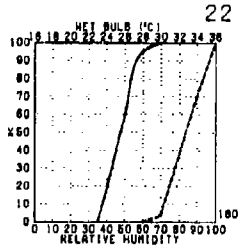


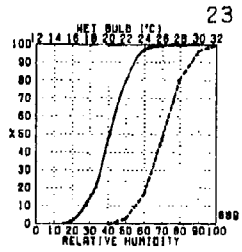


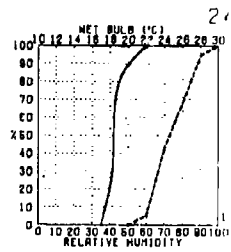


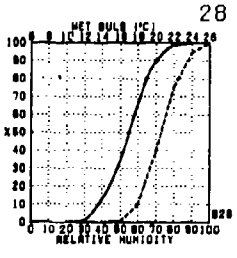


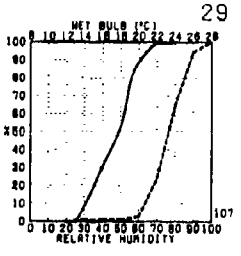


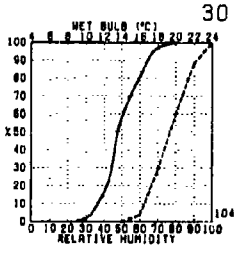


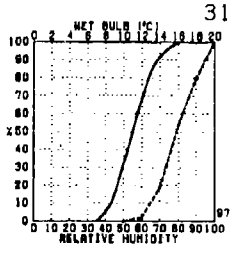


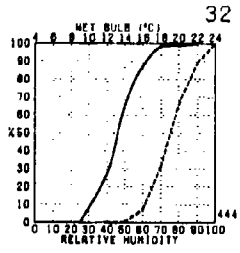


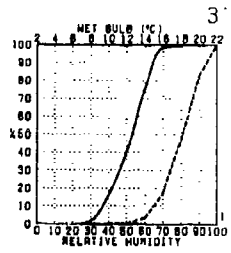












37

INSUFFICIENT DATA

38

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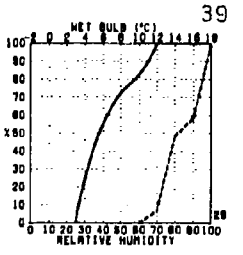

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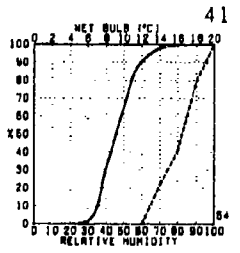
INSUFFICIENT DATA



42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

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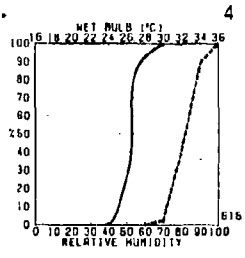

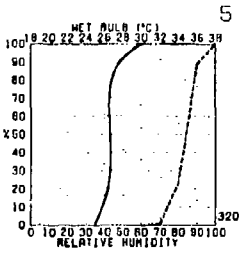

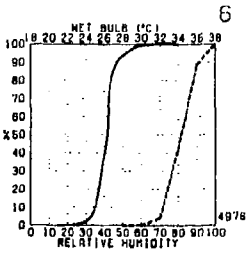

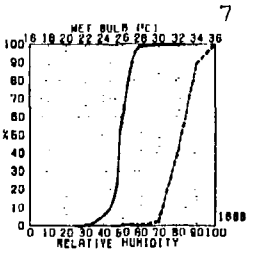

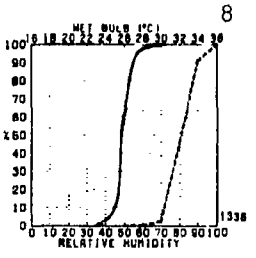

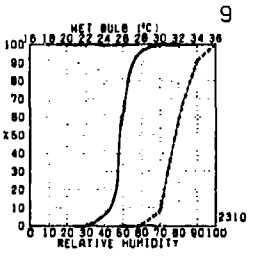

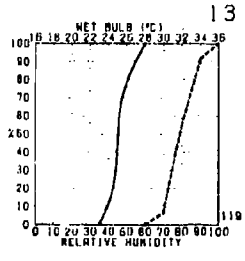

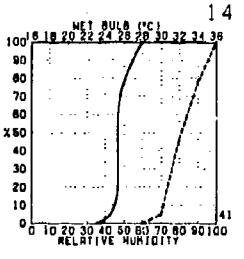

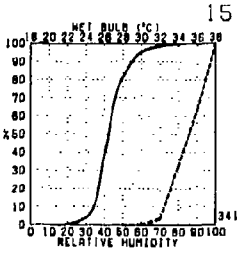

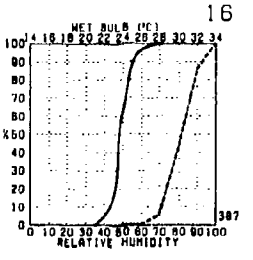

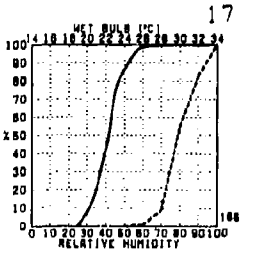

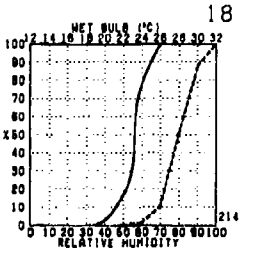

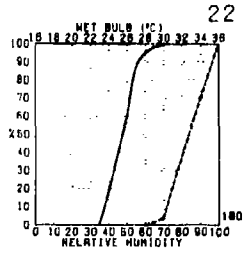

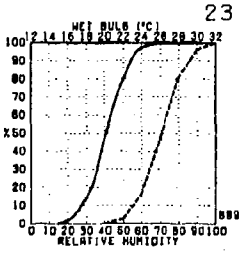

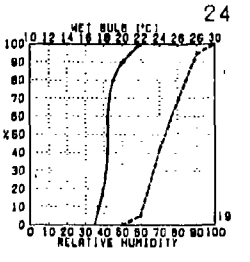

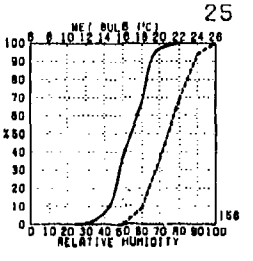

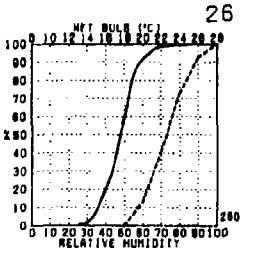

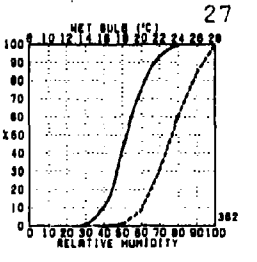

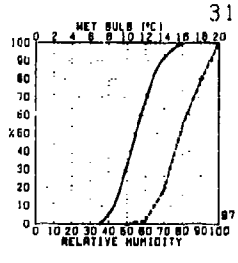

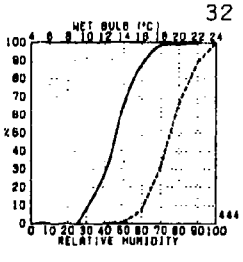

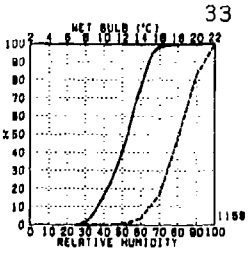

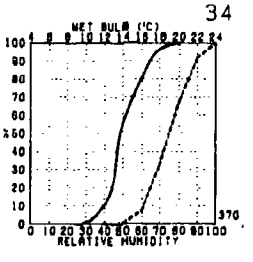

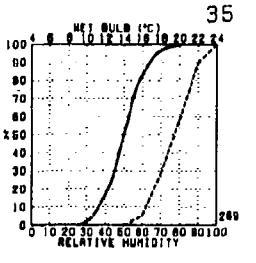

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INSUFFICIENT DATA

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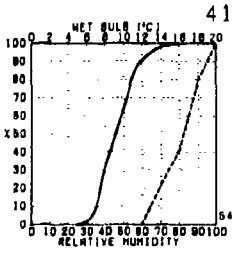

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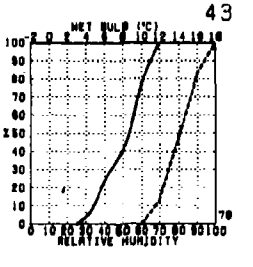

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ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

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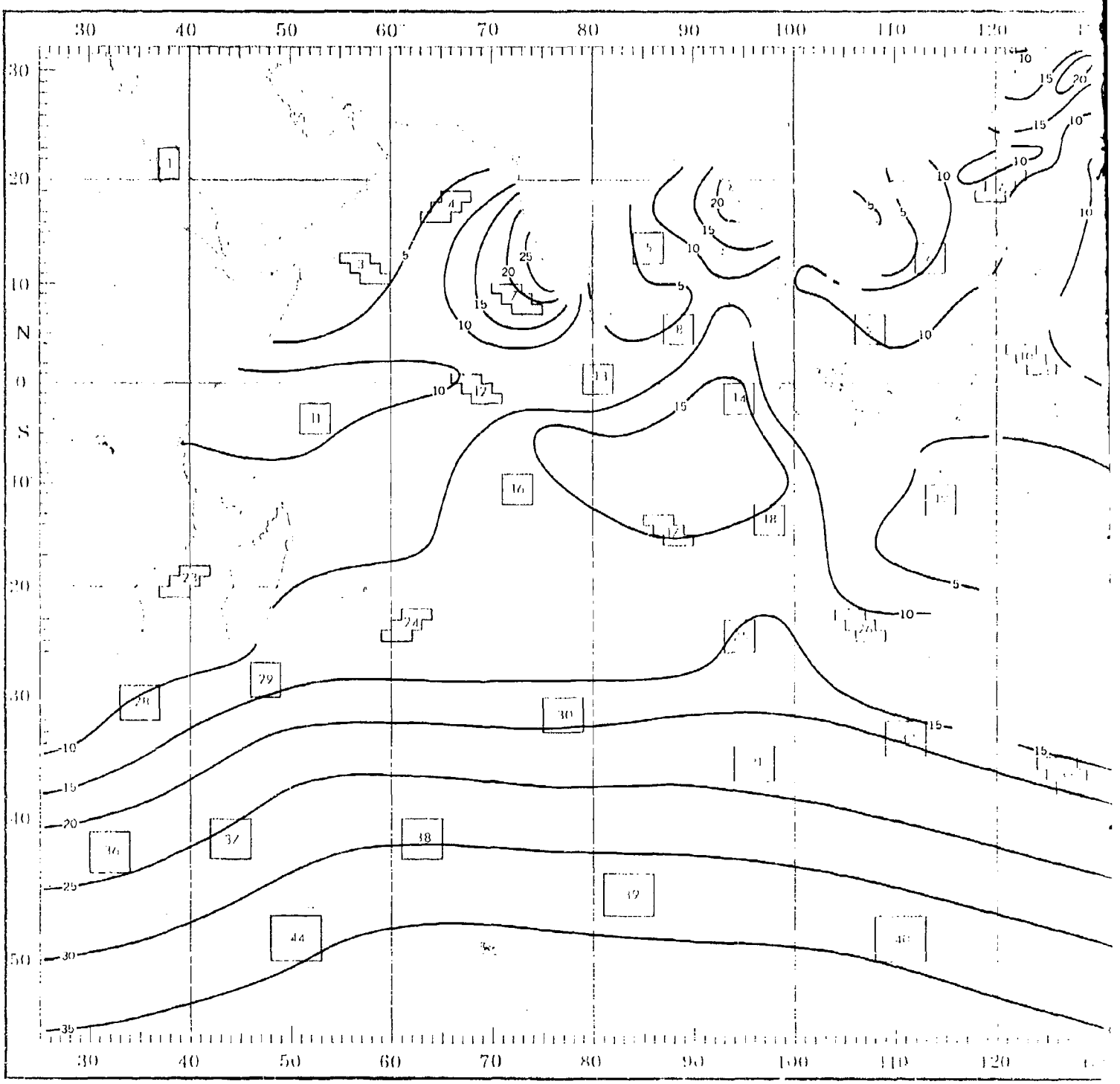
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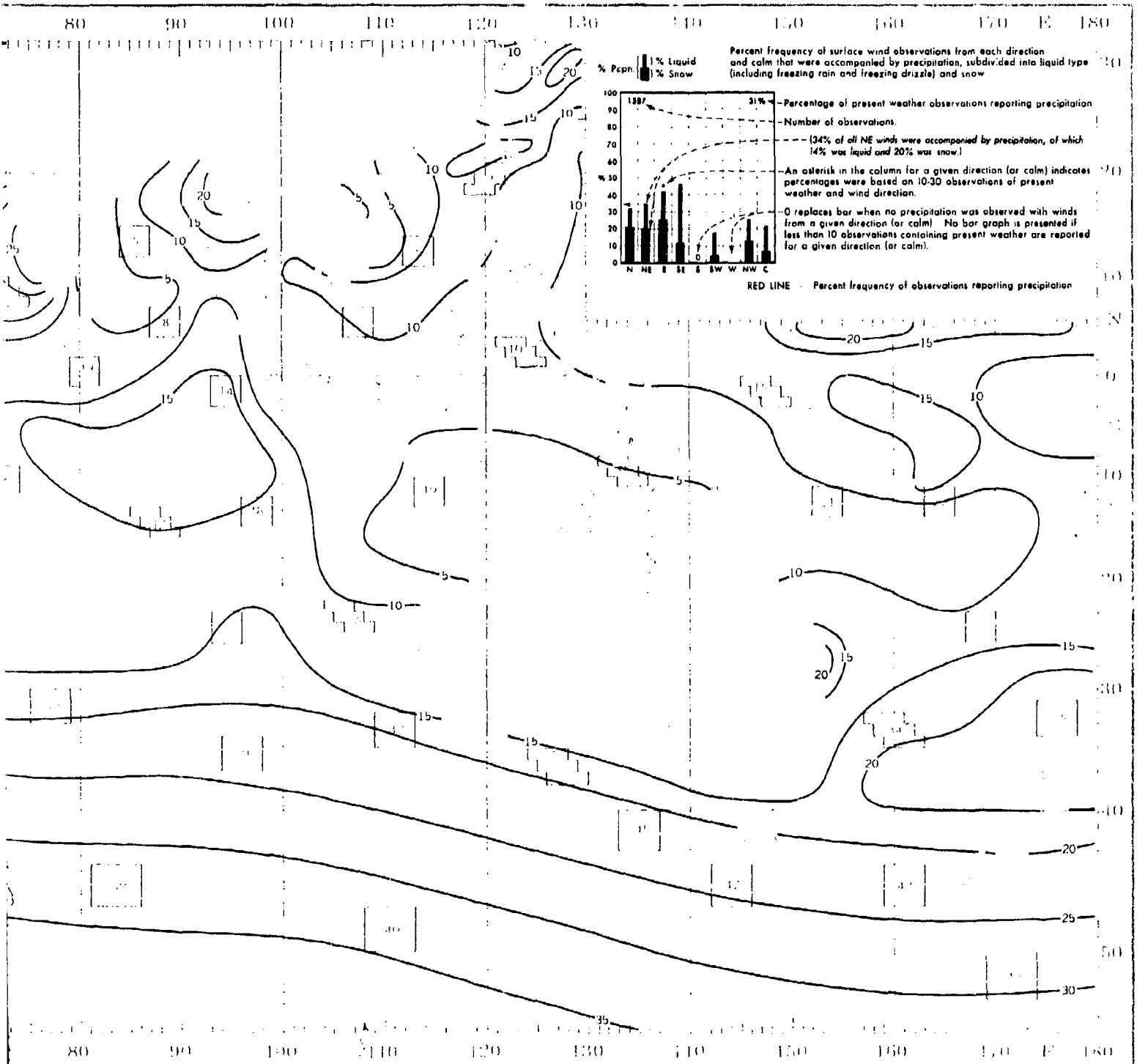
PRECIPITATION



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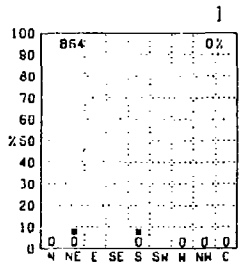
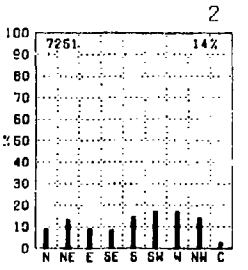
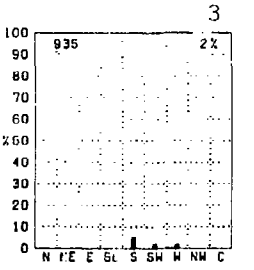
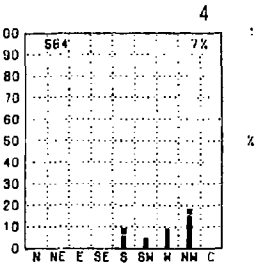
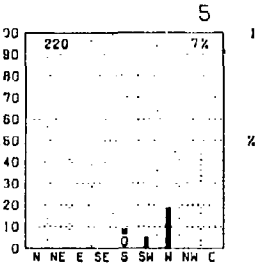
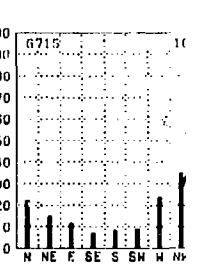


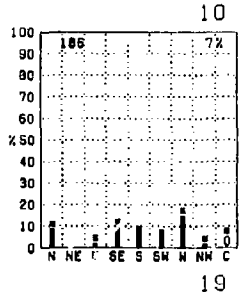


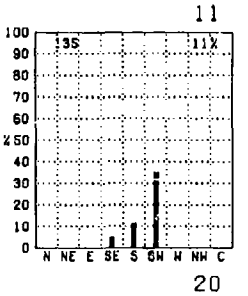


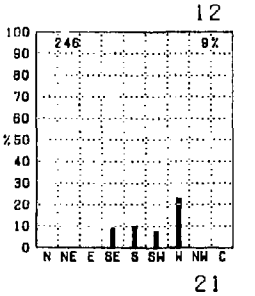


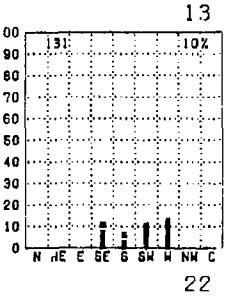






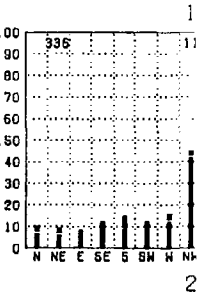


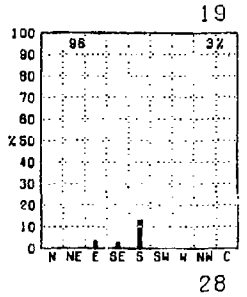


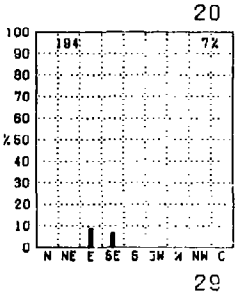


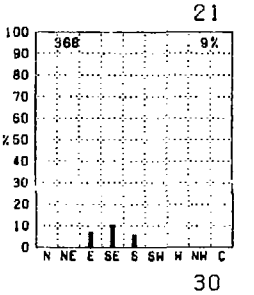
14

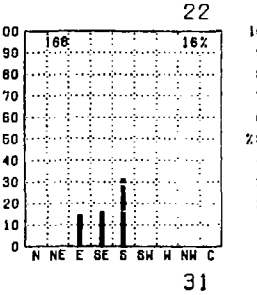
INSUFFICIENT DATA

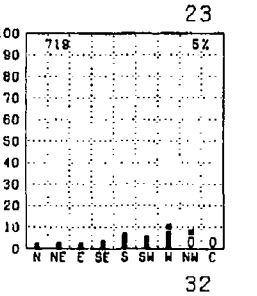












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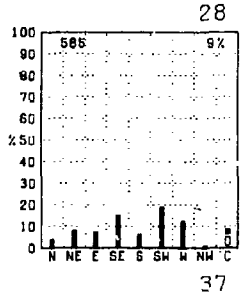

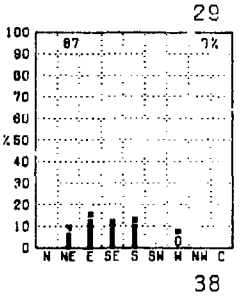

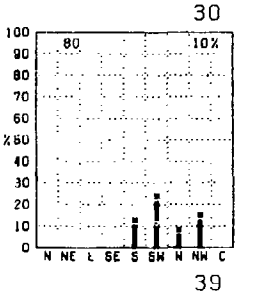

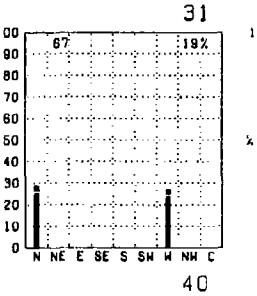

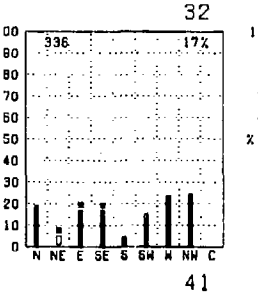

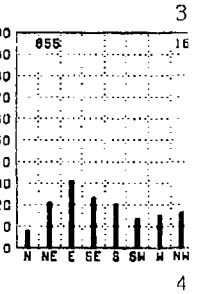

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INSUFFICIENT DATA

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Graphs represent the objective compilation of available data for specified areas without

The isopleth analyses (opposite page) are based on all available data subjectively adju

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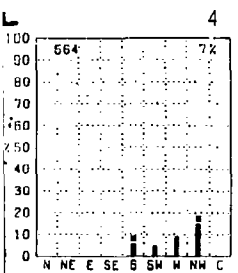

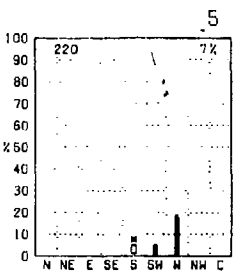

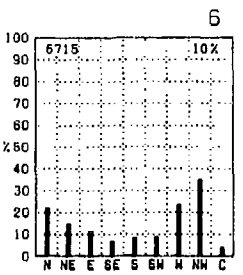

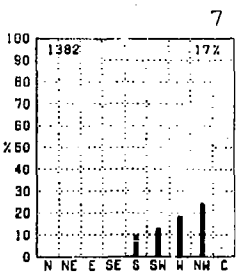

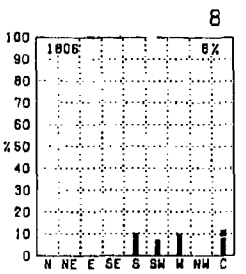

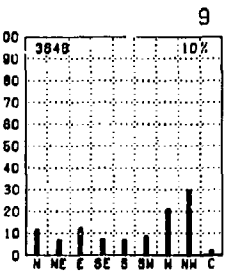

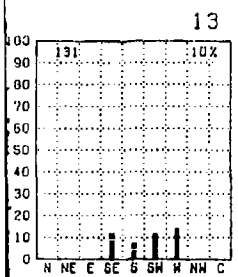

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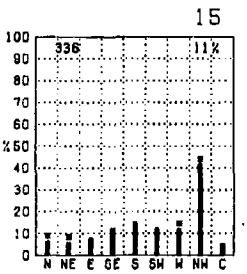

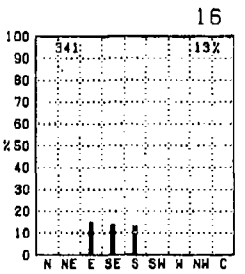

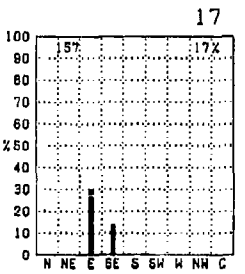

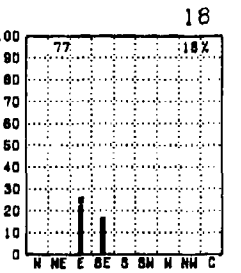

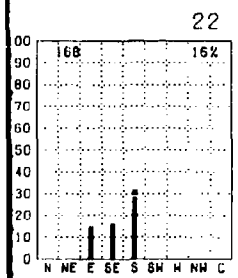

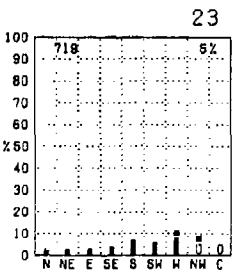

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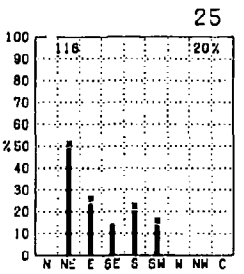
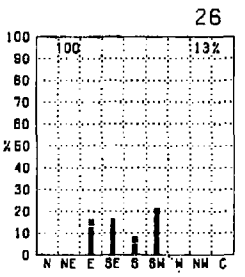
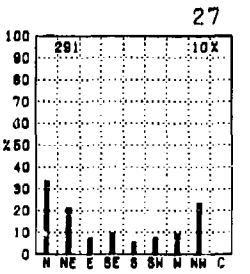
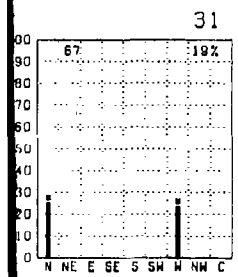
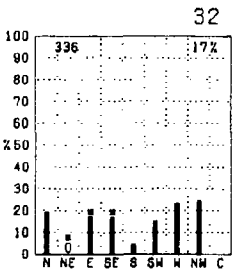
INSUFFICIENT DATA

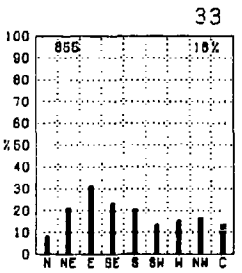


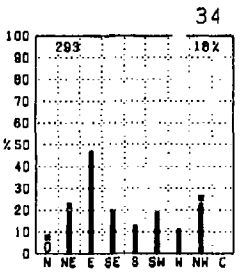


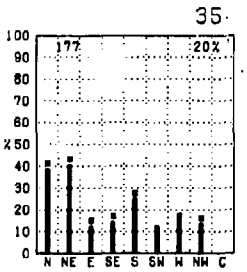












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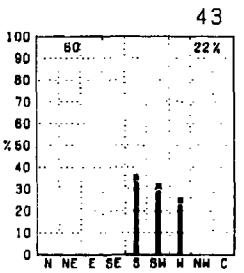
INSUFFICIENT DATA



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INSUFFICIENT DATA

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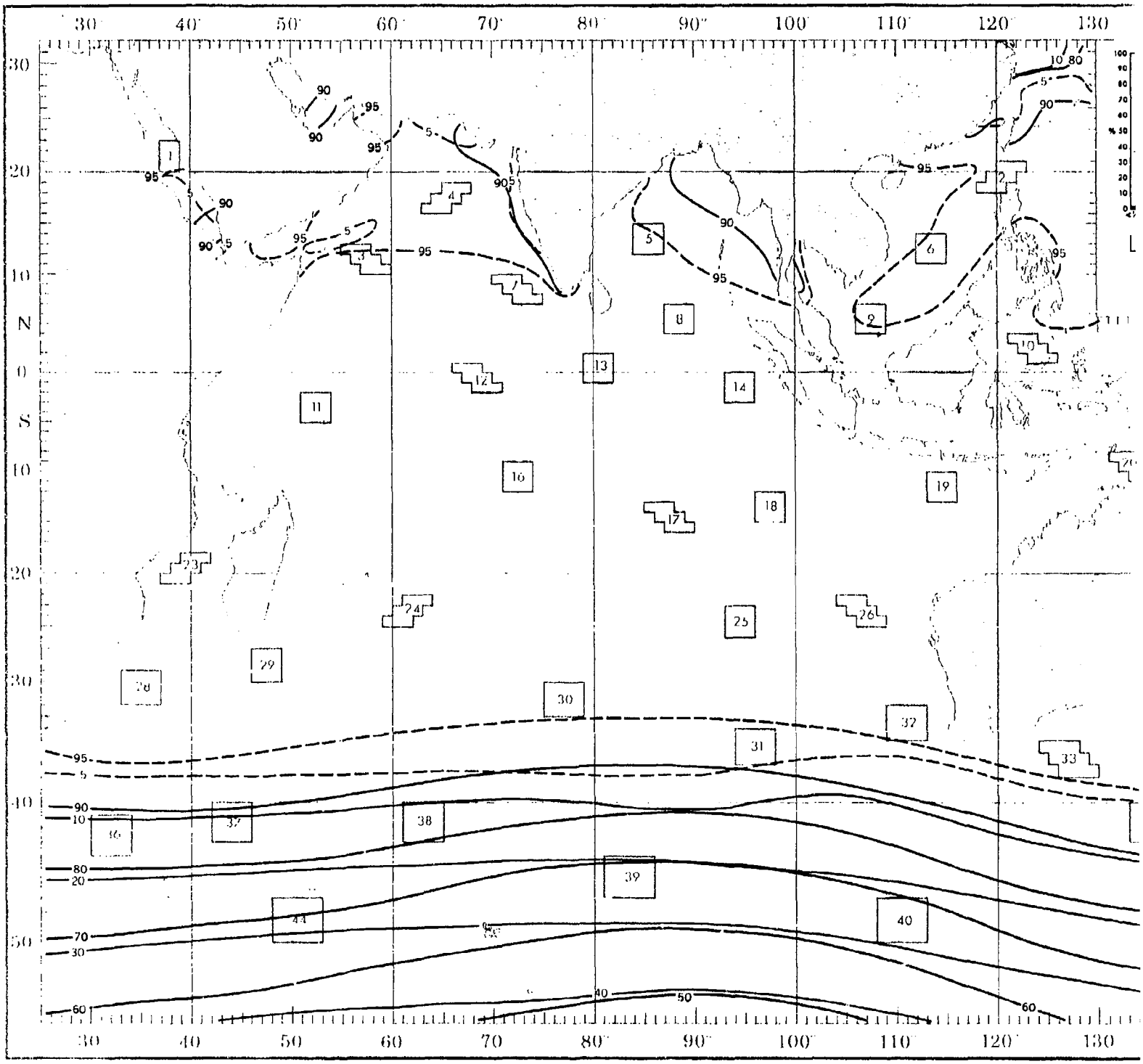
INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

JUNE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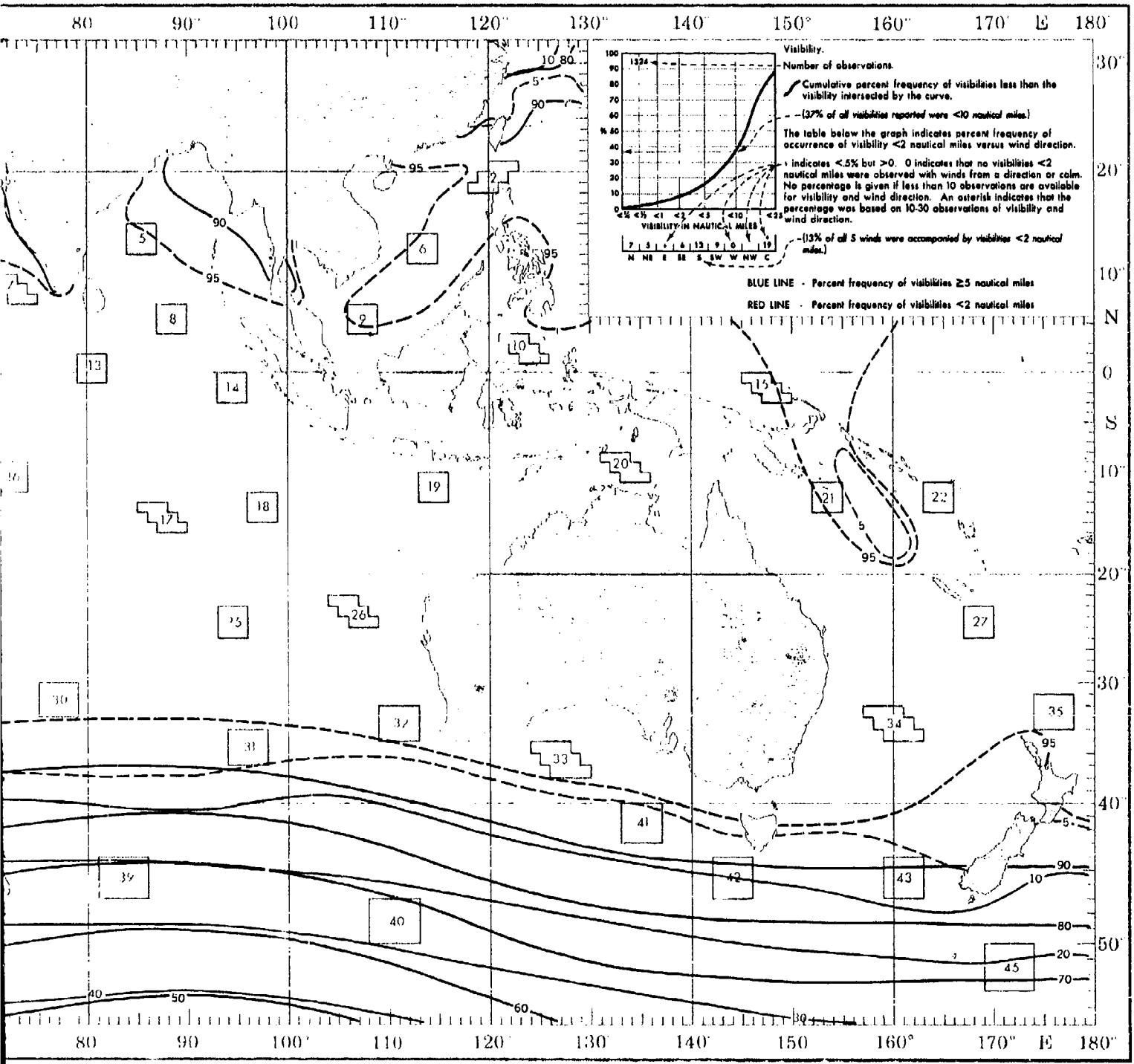
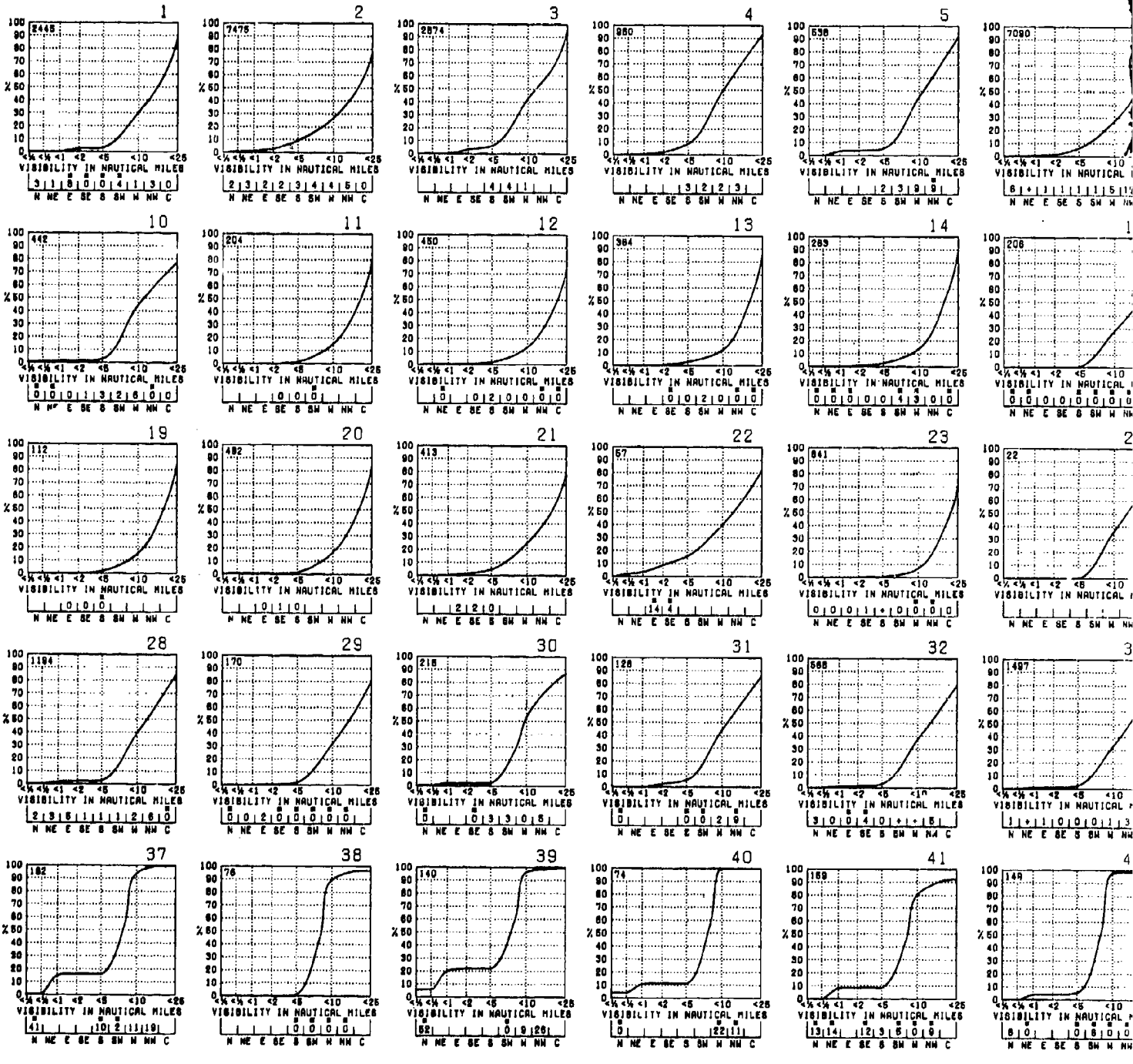
VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
• indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
VISIBILITY IN NAUTICAL MILES
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

VISIBILITY



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

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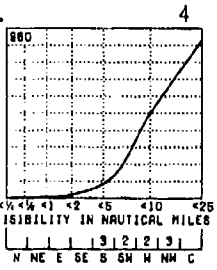

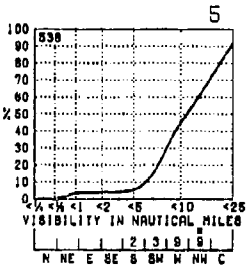

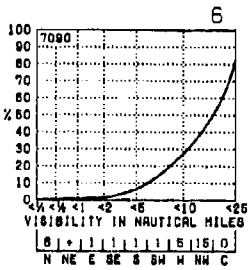

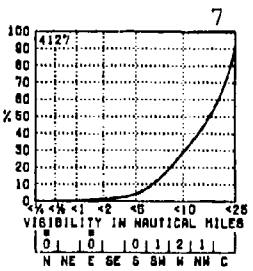

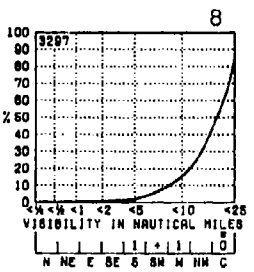

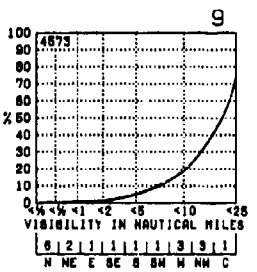

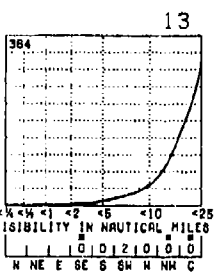

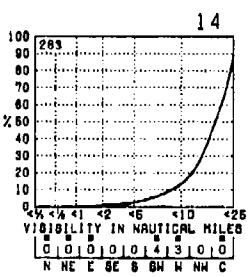

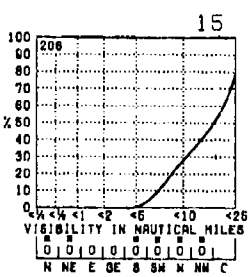

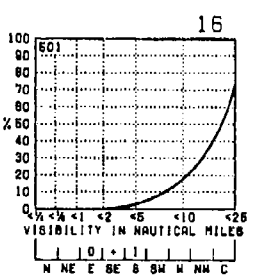

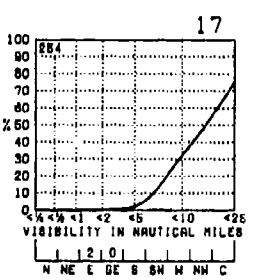

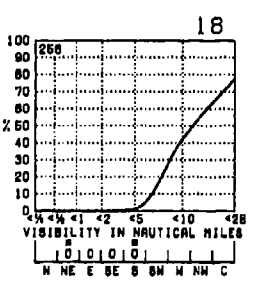

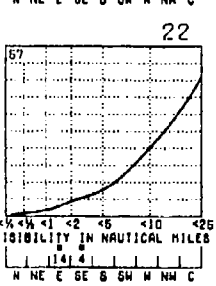

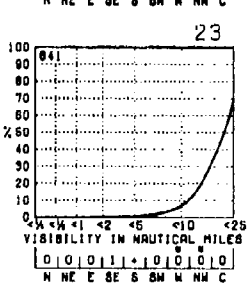

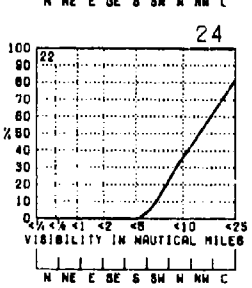

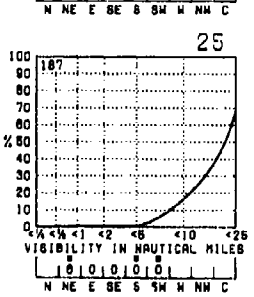

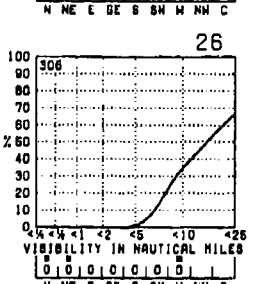

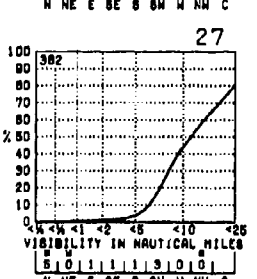

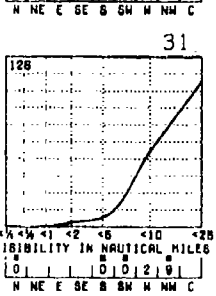

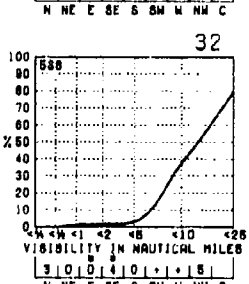

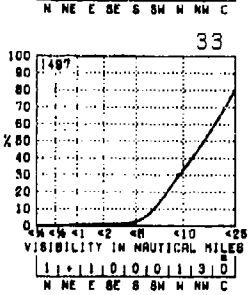

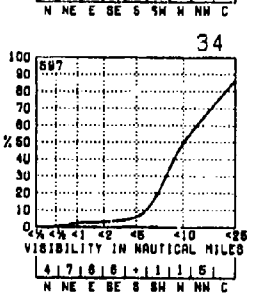

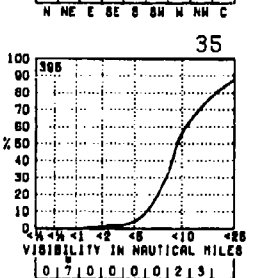

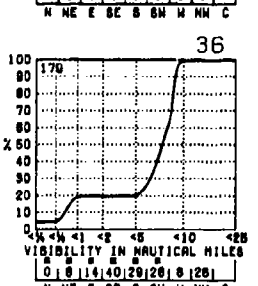

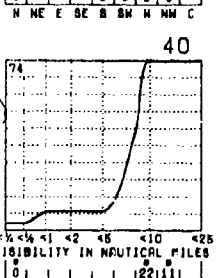

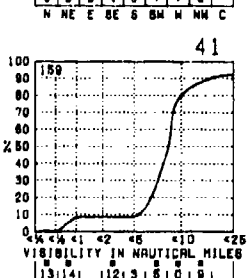

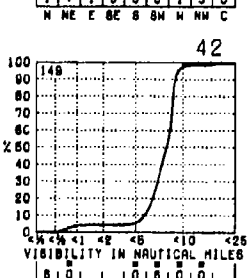

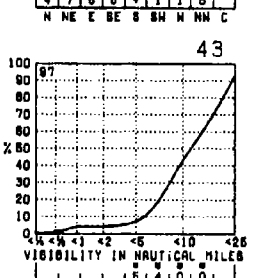

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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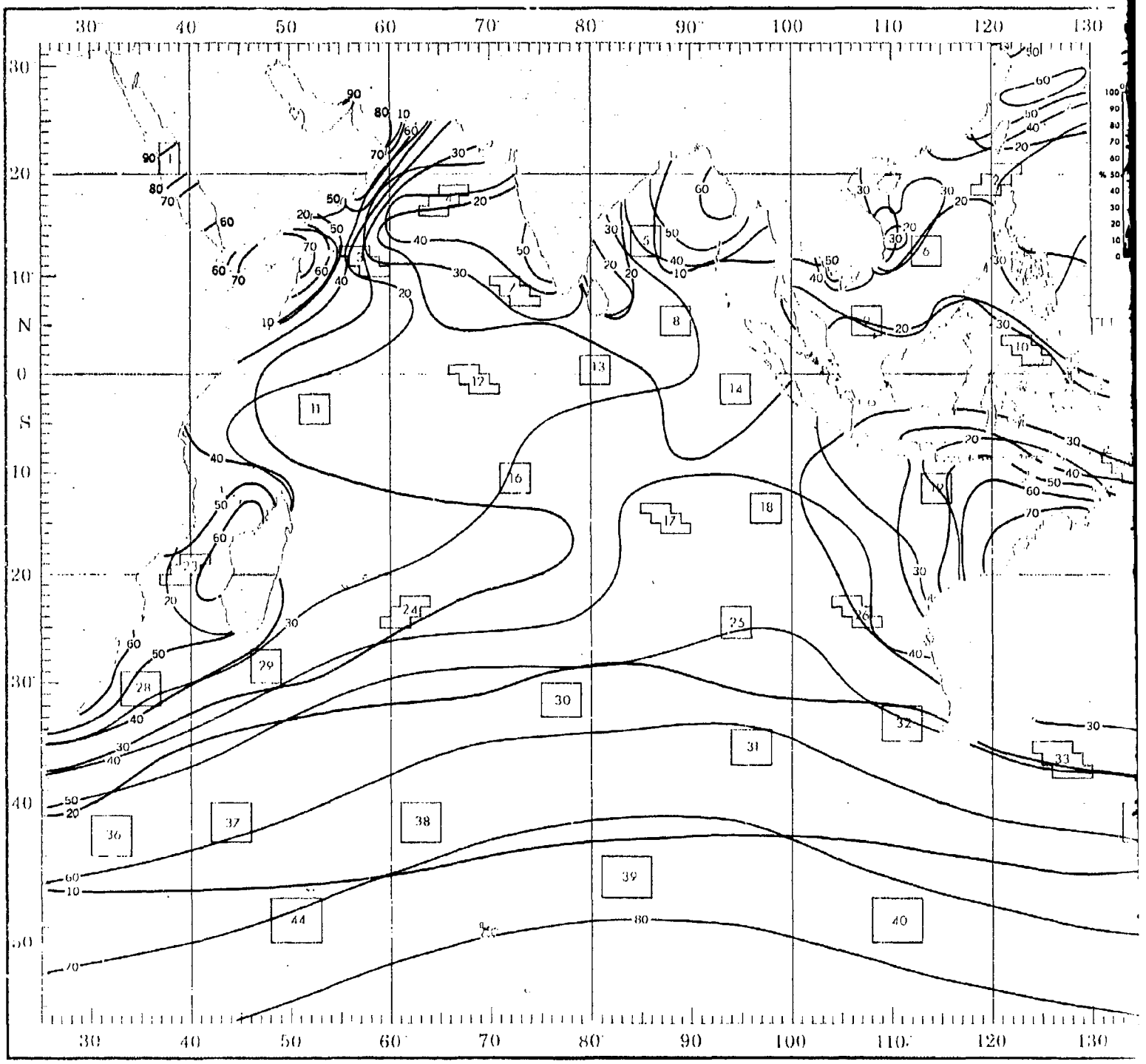
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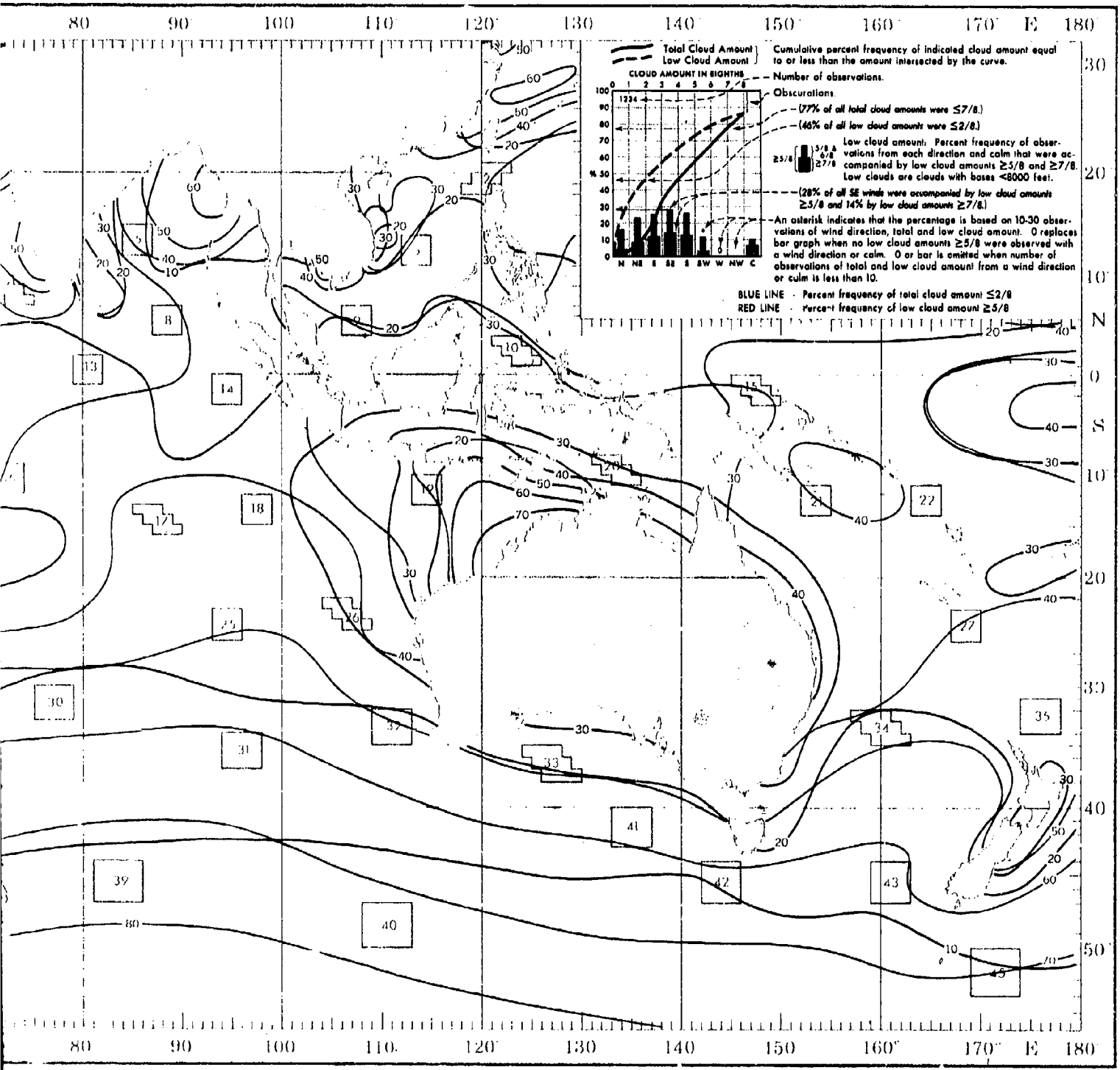
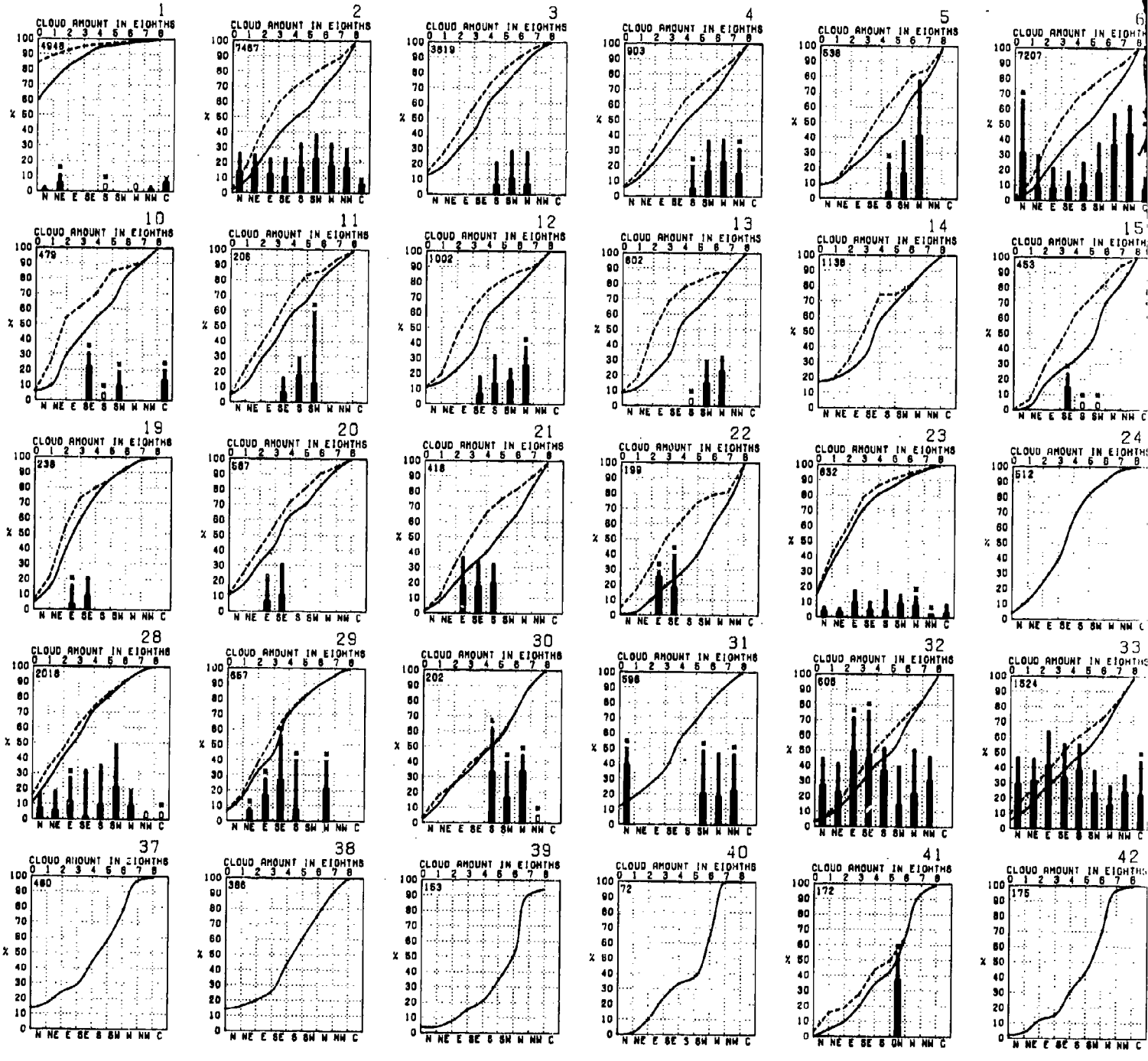
CLOUD COVER


Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5/8 & ≥7/8
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <6000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjust

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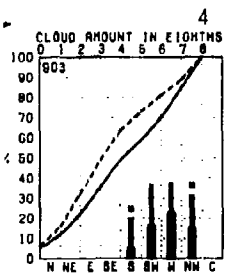
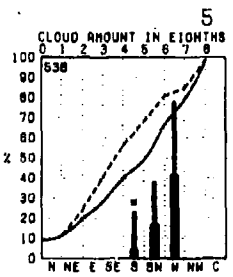
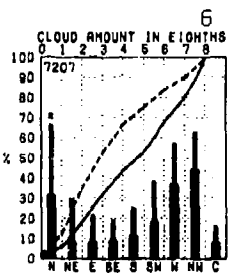
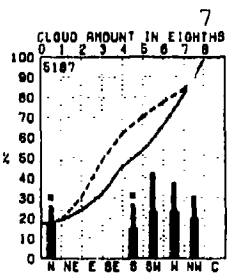
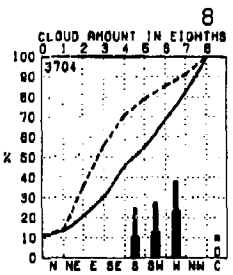
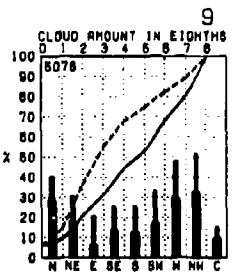


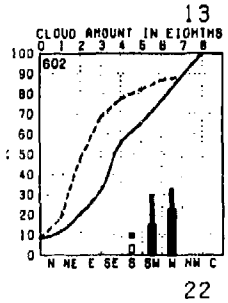


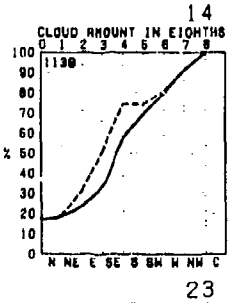


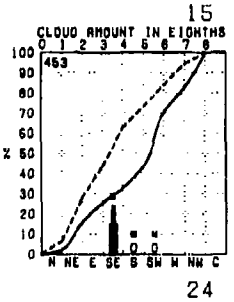


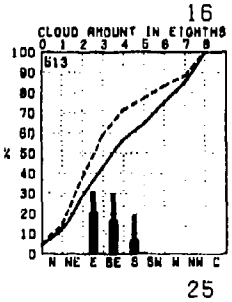


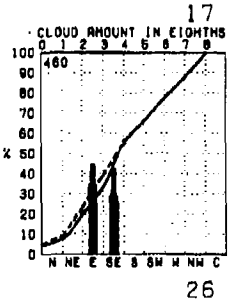


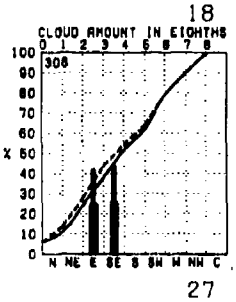


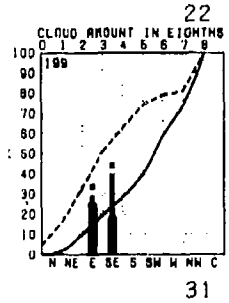


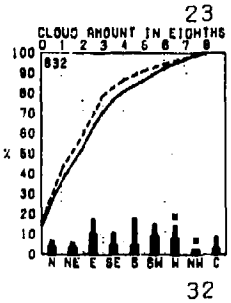


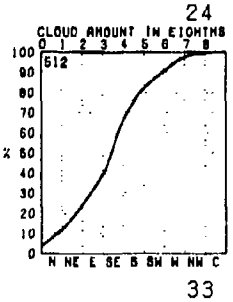


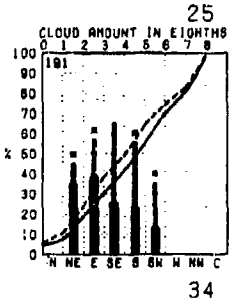


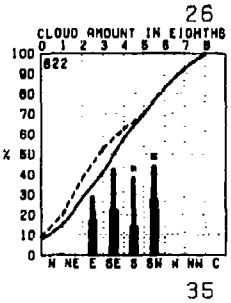


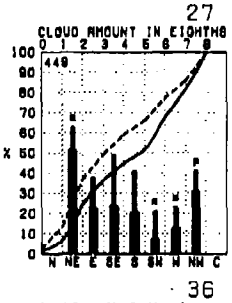


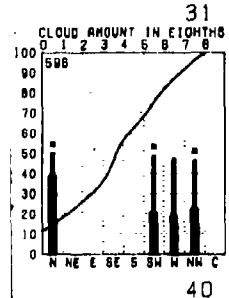


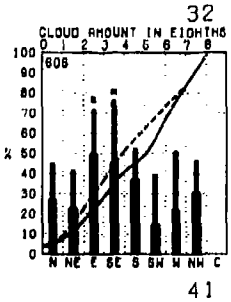


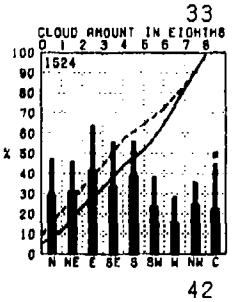


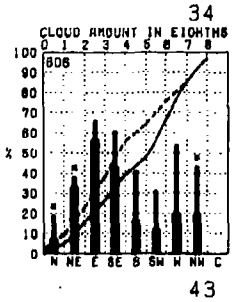


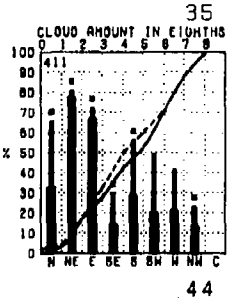


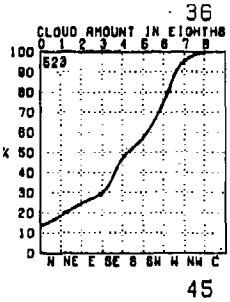


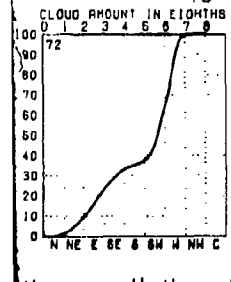


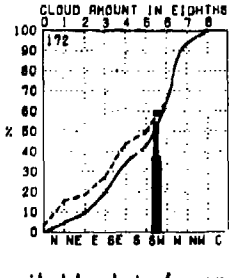


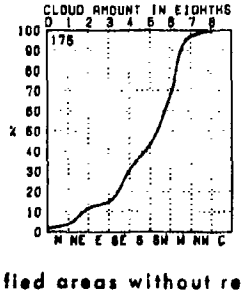


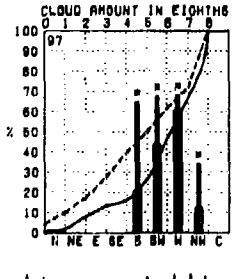












44

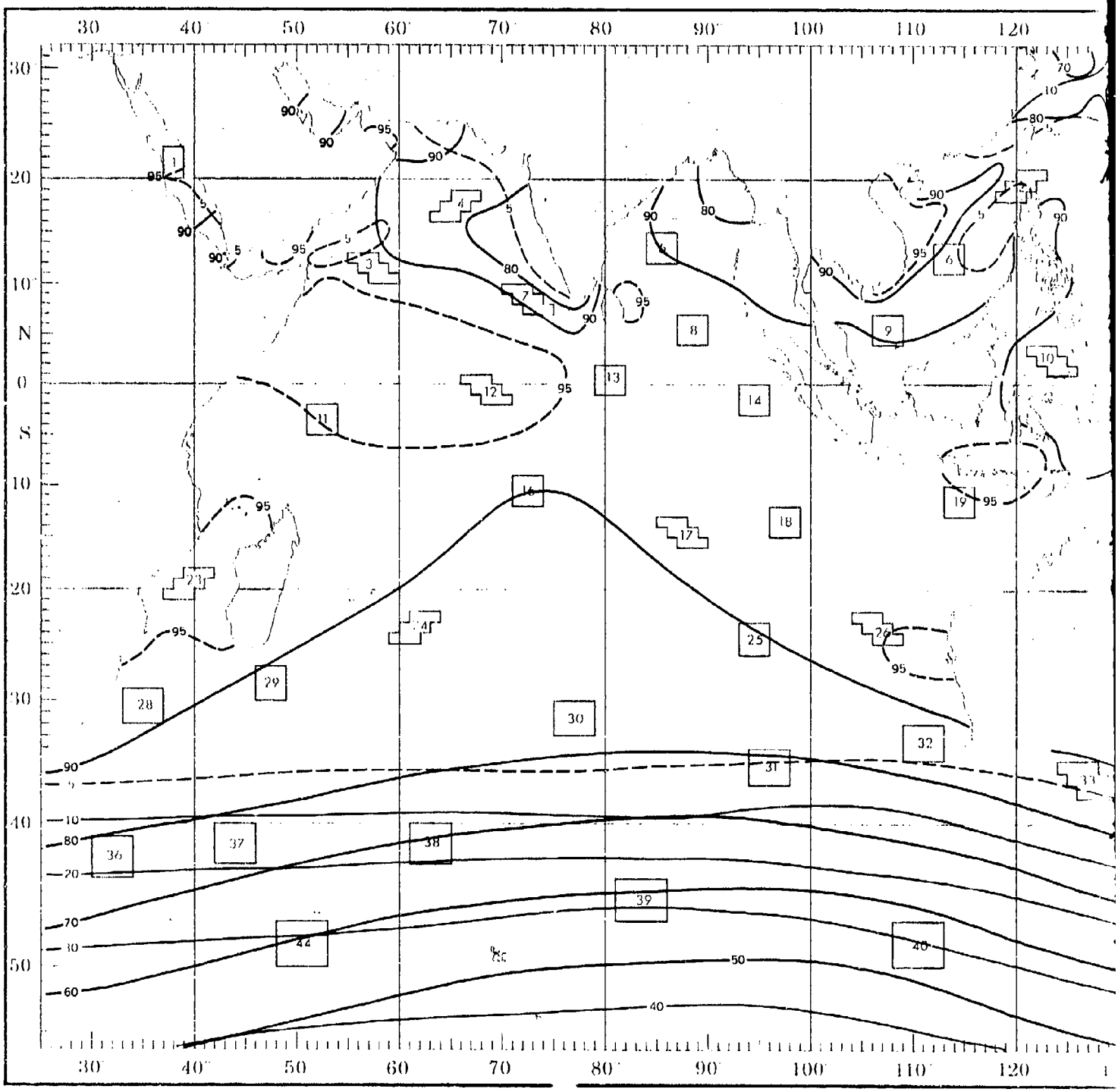
INSUFFICIENT DATA

45

INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

JUNE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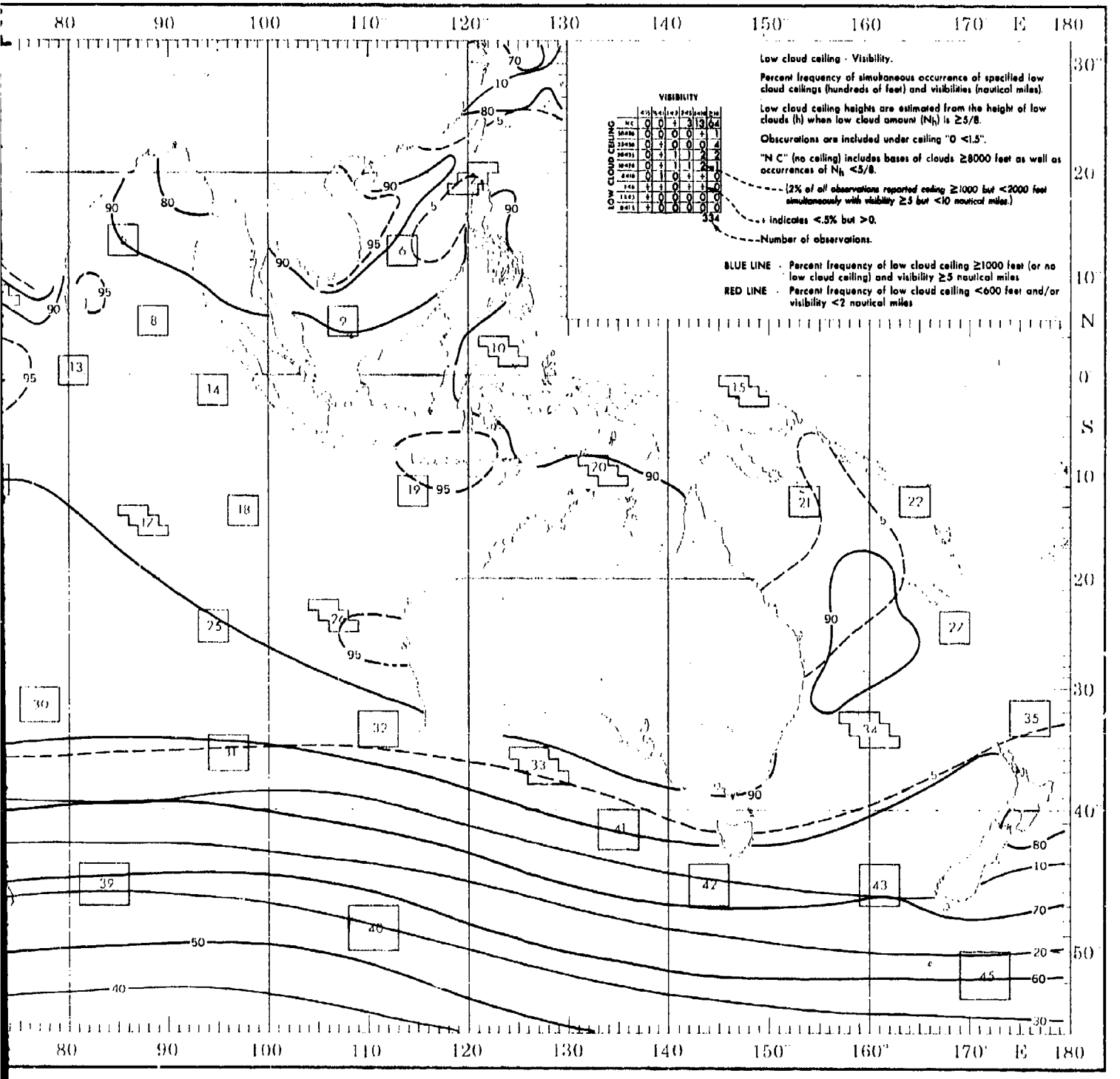
CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	1	15	82
50+80	0	0	0	0	0	*
30+50	0	0	0	0	0	*
20+30	0	0	0	0	*	*
10+20	0	0	0	0	*	*
5+10	0	0	0	0	0	0
3+5	0	0	0	0	0	0
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

933

2

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	*	*	1	8	80
50+80	0	0	0	0	*	*
30+50	0	0	*	*	*	1
20+30	0	0	*	*	2	3
10+20	*	*	*	2	4	6
5+10	*	*	1	2	3	3
3+5	*	*	*	1	1	1
1-2+3	0	*	*	*	*	*
0+1-5	*	*	*	*	*	*

6350

3

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	2	17	63
50+80	0	0	0	*	*	1
30+50	0	0	0	*	1	3
20+30	0	0	0	*	3	4
10+20	0	0	0	*	4	7
5+10	0	0	*	*	2	2
3+5	0	0	0	*	*	*
1-2+3	0	0	0	0	*	*
0+1-5	*	0	0	0	0	0

885

4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	20	41
50+80	0	0	0	1	1	1
30+50	0	0	0	1	2	3
20+30	0	0	*	1	3	4
10+20	0	0	*	1	6	4
5+10	*	0	0	1	3	3
3+5	0	0	0	1	1	*
1-2+3	0	0	0	0	*	0
0+1-5	0	0	0	0	*	*

579

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	12	44
50+80	0	0	0	0	*	*
30+50	0	0	0	*	1	5
20+30	0	*	1	*	5	6
10+20	0	0	0	1	7	11
5+10	0	0	0	0	1	3
3+5	0	0	0	0	0	*
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

230

LOW CLOUD CEILING	VISIBILITY					
NC	0	*	*	1		
50+80	0	0	0	0		
30+50	0	0	0	*		
20+30	0	0	0	*		
10+20	*	*	*	1		
5+10	*	*	*	1		
3+5	*	*	*	1		
1-2+3	0	*	*	*		
0+1-5	*	*	*	*		

10

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	84
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	2
20+30	0	0	0	0	0	5
10+20	0	0	0	0	0	2
5+10	0	2	0	0	0	3
3+5	0	0	0	0	0	3
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

83

11

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	88
50+80	0	0	0	0	1	0
30+50	0	0	0	0	0	3
20+30	0	0	0	0	0	8
10+20	0	0	0	0	0	8
5+10	0	0	0	0	0	5
3+5	0	0	0	1	0	1
1-2+3	0	0	0	0	0	1
0+1-5	0	0	0	0	0	1

112

12

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	72
50+80	0	0	0	0	0	*
30+50	0	0	0	0	1	2
20+30	*	0	0	*	1	4
10+20	0	0	0	0	1	7
5+10	0	0	0	1	2	5
3+5	*	0	*	0	1	0
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

236

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	78
50+80	0	0	0	0	0	1
30+50	0	0	0	1	0	1
20+30	0	0	0	0	0	2
10+20	0	0	0	0	3	8
5+10	0	0	0	0	4	2
3+5	0	0	0	0	0	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

117

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	70
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	5
20+30	0	0	0	0	0	0
10+20	0	0	0	0	7	7
5+10	0	0	0	0	0	5
3+5	0	0	0	0	0	0
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

43

LOW CLOUD CEILING	VISIBILITY					
NC	0	0	0	0		
50+80	0	0	0	0		
30+50	0	0	0	0		
20+30	0	0	0	0		
10+20	0	0	0	0		
5+10	0	0	0	0		
3+5	0	0	0	0		
1-2+3	0	0	0	0		
0+1-5	0	0	0	0		

19

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	74
50+80	0	0	0	0	0	1
30+50	0	0	0	0	0	3
20+30	0	0	0	0	0	3
10+20	0	0	0	0	1	13
5+10	0	0	0	0	1	5
3+5	0	0	0	0	0	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

201

20

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	71
50+80	0	0	0	0	0	1
30+50	0	0	0	0	0	3
20+30	0	0	0	0	0	3
10+20	0	0	0	0	1	13
5+10	0	0	0	0	1	5
3+5	0	0	0	0	0	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

231

21

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	8	57
50+80	0	0	0	0	0	*
30+50	0	0	0	*	0	3
20+30	0	0	0	*	*	3
10+20	0	*	*	*	2	10
5+10	0	0	0	2	4	7
3+5	0	0	0	0	1	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	*	*	0

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	3	6	56
50+80	0	0	0	0	0	0
30+50	0	0	0	0	0	3
20+30	0	0	0	0	0	0
10+20	0	0	0	3	0	9
5+10	0	0	0	6	6	0
3+5	0	0	3	0	0	0
1-2+3	0	3	3	0	0	0
0+1-5	0	0	0	0	0	0

34

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	67
50+80	0	0	0	0	0	*
30+50	0	0	0	0	*	*
20+30	0	0	0	0	*	4
10+20	0	0	0	0	*	3
5+10	0	0	0	*	*	3
3+5	0	0	0	0	0	*
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	*	0

683

LOW CLOUD CEILING	VISIBILITY					
NC	0	0	0	0		
50+80	0	0	0	0		
30+50	0	0	0	0		
20+30	0	0	0	0		
10+20	0	0	0	0		
5+10	0	0	0	0		
3+5	0	0	0	0		
1-2+3	0	0	0	0		
0+1-5	0	0	0	0		

28

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	71
50+80	0	0	0	0	*	0
30+50	0	0	0	0	*	1
20+30	0	0	0	0	1	4
10+20	0	0	0	*	2	10
5+10	*	0	0	C	3	4
3+5	0	0	0	0	1	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

878

29

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	72
50+80	0	0	0	0	0	1
30+50	0	0	0	0	0	3
20+30	0	0	0	0	1	2
10+20	0	0	0	0	1	8
5+10	0	0	0	1	0	8
3+5	0	0	0	0	0	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

92

30

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	45
50+80	0	0	0	0	1	3
30+50	0	0	0	0	0	6
20+30	0	0	0	0	0	8
10+20	0	0	0	1	4	25
5+10	0	0	0	0	0	5
3+5	0	0	0	0	0	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

80

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	45
50+80	0	0	0	0	1	2
30+50	0	0	0	0	0	4
20+30	0	0	0	0	5	4
10+20	0	0	0	0	2	14
5+10	0	0	0	1	5	6
3+5	0	0	1	0	1	0
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	1	0

84

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	48
50+80	0	0	0	0	1	1
30+50	0	0	0	0	1	3
20+30	0	0	0	0	1	10
10+20	0	0	0	1	2	15
5+10	0	0	*	1	1	7
3+5	0	*	0	1	1	1
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	*

344

LOW CLOUD CEILING	VISIBILITY					
NC	0	0	0	0		
50+80	0	0	0	0		
30+50	0	0	*	0		
20+30	0	0	0	*		
10+20	0	0	0	1		
5+10	0	0	0	1		
3+5	0	0	*	*		
1-2+3	0	0	0	0		
0+1-5	0	0	0	0		

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	44
50+80	0	0	0	0	0	0
30+50	0	0	0	0	3	0
20+30	0	0	0	0	0	9
10+20	0	0	0	0	6	16
5+10	0	0	0	0	9	13
3+5	0	0	0	0	0	0
1-2+3	0	0	0	0	0	0
0+1-5	0	0	0	0	0	0

32

INSUFFICIEN DATA

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adj

JUNE

4

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	20	41
50+80	0	0	0	1	1	1
35+50	0	0	0	1	2	3
20+35	0	0	+	1	3	4
10+20	0	0	+	1	5	4
5+10	+	0	0	1	3	3
3+5	0	0	0	1	1	+
1.5+3	0	0	0	0	+	0
0+1.5	0	0	0	0	+	+

579

5

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	12	44
50+80	0	0	0	0	+	+
35+50	0	0	0	+	1	5
20+35	0	+	1	+	5	8
10+20	0	0	0	1	7	11
5+10	0	0	0	0	1	3
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

230

6

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	9	57
50+80	0	0	0	0	+	+
35+50	0	0	0	+	+	1
20+35	0	0	0	+	1	4
10+20	+	+	+	1	5	7
5+10	+	+	+	1	4	4
3+5	+	+	+	1	1	1
1.5+3	0	+	+	+	+	+
0+1.5	+	+	+	+	+	+

5881

7

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	5	67
50+80	0	0	0	0	+	2
35+50	0	0	+	+	1	3
20+35	0	0	+	+	1	8
10+20	0	+	+	1	5	9
5+10	0	0	0	+	2	5
3+5	+	0	+	0	+	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	+	0	0	+

1303

8

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	5	66
50+80	0	0	0	0	+	1
35+50	0	0	0	0	+	2
20+35	0	0	0	+	+	4
10+20	+	0	0	+	3	8
5+10	0	+	+	+	2	4
3+5	0	+	0	+	1	+
1.5+3	0	0	+	0	-	+
0+1.5	0	0	0	0	+	+

1372

9

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	+	1	8	82
50+80	0	0	0	0	0	+
35+50	0	0	0	+	+	1
20+35	0	+	0	+	1	5
10+20	0	0	+	1	3	8
5+10	0	0	+	1	2	4
3+5	0	0	+	1	1	1
1.5+3	0	0	0	+	+	+
0+1.5	+	+	+	+	+	+

2456

13

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	76
50+80	0	0	0	0	0	1
35+50	0	0	0	1	0	1
20+35	0	0	0	0	0	2
10+20	0	0	0	0	3	8
5+10	0	0	0	0	4	2
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

117

14

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	70
50+80	0	0	0	0	0	6
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	3
10+20	0	0	0	0	7	7
5+10	0	0	0	0	0	5
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

43

15

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	73
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	3
20+35	0	0	0	0	3	7
10+20	0	0	0	0	3	7
5+10	0	0	0	0	3	7
3+5	0	0	0	0	0	3
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

30

16

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	69
50+80	0	0	0	0	0	+
35+50	0	0	0	0	+	3
20+35	0	0	0	1	1	6
10+20	0	0	0	+	2	8
5+10	0	0	0	+	4	4
3+5	0	0	0	1	+	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

367

17

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	1	1	5	49
50+80	0	0	0	0	1	1
35+50	0	0	0	0	1	2
20+35	0	0	0	1	1	4
10+20	0	0	0	1	8	13
5+10	0	0	0	0	7	3
3+5	0	0	0	1	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

189

18

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	52
50+80	0	0	0	0	2	2
35+50	0	0	0	0	3	9
20+35	0	0	0	2	2	9
10+20	0	0	0	0	3	9
5+10	0	0	0	0	0	4
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

129

22

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	3	8	58
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	3
20+35	0	0	0	0	0	0
10+20	0	0	0	3	0	9
5+10	0	0	0	6	6	0
3+5	0	0	3	0	0	0
1.5+3	0	3	3	0	0	0
0+1.5	0	0	0	0	0	0

34

23

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	87
50+80	0	0	0	0	0	+
35+50	0	0	0	0	+	+
20+35	0	0	0	0	+	4
10+20	0	0	0	0	+	3
5+10	0	0	0	+	+	3
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	+	0

663

24

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	6	76
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	0
10+20	0	0	0	0	0	6
5+10	0	0	0	0	6	6
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

16

25

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	49
50+80	0	0	0	0	0	2
35+50	0	0	0	0	1	8
20+35	0	0	0	0	1	6
10+20	0	0	0	0	2	22
5+10	0	0	0	0	1	4
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	1	0

144

26

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	82
50+80	0	0	0	0	0	4
35+50	0	0	0	0	0	8
20+35	0	0	0	0	0	10
10+20	0	0	0	0	1	10
5+10	0	0	0	0	0	2
3+5	0	0	0	1	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

165

27

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	61
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	2
20+35	0	0	0	0	1	5
10+20	0	0	0	1	2	15
5+10	0	0	0	0	3	6
3+5	0	0	1	2	1	2
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

198

31

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	5	45
50+80	0	0	0	0	1	2
35+50	0	0	0	0	0	4
20+35	0	0	0	0	5	4
10+20	0	0	0	0	2	14
5+10	0	0	0	1	5	6
3+5	0	0	1	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	1	0

84

32

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	49
50+80	0	0	0	0	1	1
35+50	0	0	0	0	1	3
20+35	0	0	0	0	1	10
10+20	0	0	0	1	2	15
5+10	0	0	+	1	1	7
3+5	0	+	0	1	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

344

33

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	55
50+80	0	0	+	0	+	2
35+50	0	0	+	+	+	3
20+35	0	0	0	+	1	7
10+20	0	0	0	1	4	12
5+10	0	0	0	1	2	6
3+5	0	0	+	+	+	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

926

34

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	64
50+80	0	0	0	0	0	0
35+50	0	0	0	0	1	2
20+35	0	0	0	0	1	4
10+20	0	0	0	+	2	13
5+10	0	0	+	2	3	11
3+5	0	0	0	+	+	+
1.5+3	+	0	0	+	0	0
0+1.5	0	+	0	1	+	0

278

35

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	48
50+80	0	0	0	1	0	1
35+50	0	0	0	0	0	1
20+35	0	0	0	0	2	3
10+20	0	0	0	1	5	15
5+10	0	0	1	1	6	8
3+5	0	0	0	1	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	1	0	1	0

144

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	44
50+80	0	0	0	0	0	0
35+50	0	0	0	0	3	0
20+35	0	0	0	0	0	9
10+20	0	0	0	0	6	16
5+10	0	0	0	0	9	13
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

32

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	39
50+80	0	0	0	0	2	0
35+50	0	0	0	0	0	5
20+35	0	0	0	0	0	8
10+20	0	0	0	0	2	16
5+10	2	0	0	2	8	13
3+5	0	0	0	0	5	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

82

44

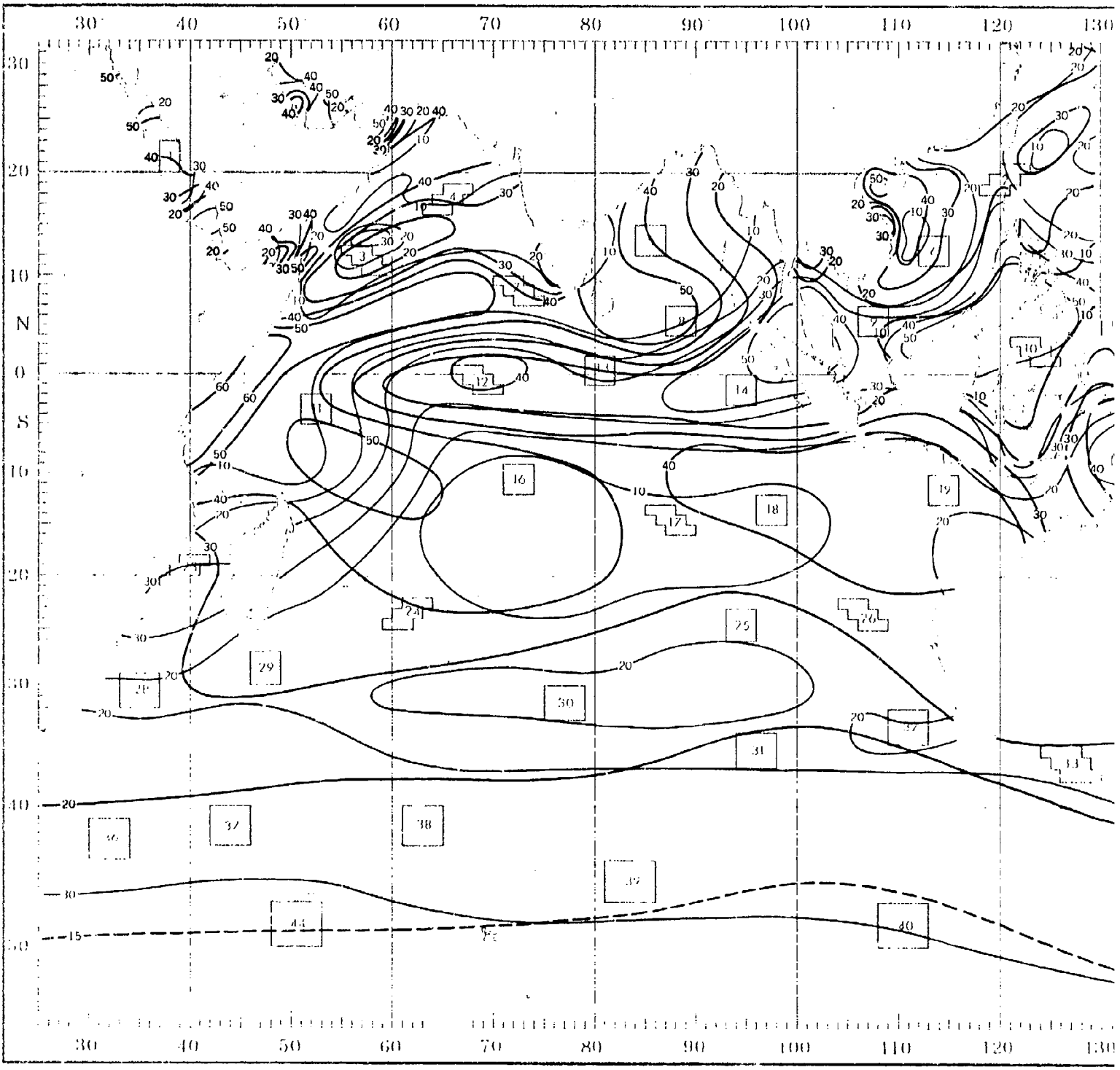
INSUFFICIENT DATA

45

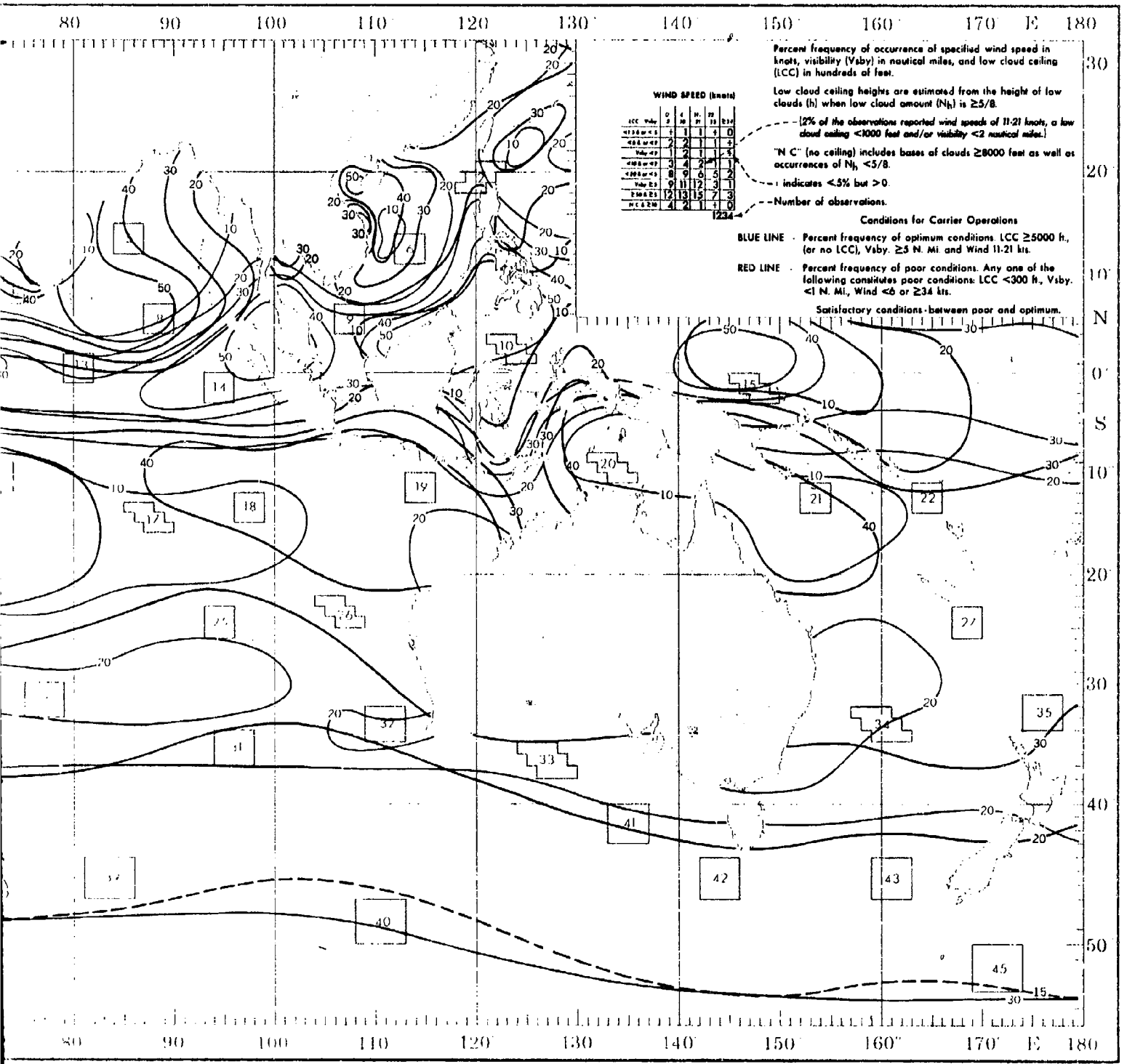
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

JUNE



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<5 & OR <2	0	0	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	0	+	0	0
<20 & OR <5	+	1	+	0	0
VSBY ≥5	10	45	41	2	0
≥50 & ≥5	10	44	41	2	0
NC & ≥10	8	38	35	2	0

827

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	1	+	+
<5 & OR <2	+	1	3	1	+
VSBY <2	+	1	2	1	+
<10 & OR <2	+	4	7	2	+
<20 & OR <5	1	8	13	3	+
VSBY ≥5	9	44	34	4	+
≥50 & ≥5	8	36	23	2	+
NC & ≥10	7	31	20	1	+

6318

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	0	+	1	+
VSBY <2	0	0	0	+	0
<10 & OR <2	0	0	1	3	1
<20 & OR <5	0	0	4	12	3
VSBY ≥5	1	2	23	58	12
≥50 & ≥5	1	2	17	43	8
NC & ≥10	1	2	14	31	6

884

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	+
<5 & OR <2	0	0	1	2	+
VSBY <2	0	0	+	+	0
<10 & OR <2	0	+	3	6	1
<20 & OR <5	+	2	10	13	1
VSBY ≥5	3	14	43	28	3
≥50 & ≥5	3	12	32	15	1
NC & ≥10	3	11	21	7	1

577

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	1	+	0
<10 & OR <2	0	0	4	2	0
<20 & OR <5	0	1	15	10	0
VSBY ≥5	0	11	63	24	0
≥50 & ≥5	0	8	60	9	0
NC & ≥10	0	6	32	7	0

228

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	+
<5 & OR <2	+	1	2	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	+	2	8	3	+
<20 & OR <5	1	6	16	5	+
VSBY ≥5	5	33	48	8	+
≥50 & ≥5	4	27	31	4	+
NC & ≥10	3	24	26	3	0

5664

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	3	2	0	0
VSBY <2	0	2	0	0	0
<10 & OR <2	2	5	2	0	0
<20 & OR <5	3	5	2	0	0
VSBY ≥5	43	36	20	0	0
≥50 & ≥5	39	28	18	0	0
NC & ≥10	39	28	18	0	0

81

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	2	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	4	0	0
<20 & OR <5	0	10	5	0	0
VSBY ≥5	0	44	[illegible]		
≥50 & ≥5	0	29	[illegible]		
NC & ≥10	0	26	[illegible]		

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	+	1	0	0
<10 & OR <2	0	6	3	0	0
<20 & OR <5	+	3	6	+	0
VSBY ≥5	15	70	12	0	0
≥50 & ≥5	14	55	7	0	0
NC & ≥10	13	53	6	0	0

229

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	3	0	0
<20 & OR <5	3	5	11	0	0
VSBY ≥5	9	56	34	0	0
≥50 & ≥5	7	50	21	0	0
NC & ≥10	7	50	20	0	0

117

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	0	0	0
<20 & OR <5	2	12	5	0	0
VSBY ≥5	12	61	27	0	0
≥50 & ≥5	10	44	22	0	0
NC & ≥10	10	39	20	0	0

41

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	3	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	10	0	0	0
<20 & OR <5	3	13	3	0	0
VSBY ≥5	33	57	10	0	0
≥50 & ≥5	27	43	7	0	0
NC & ≥10	27	40	7	0	0

30

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	5	3	0
<20 & OR <5	1	1	12	3	0
VSBY ≥5	4	40	51	3	0
≥50 & ≥5	3	38	36	1	0
NC & ≥10	3	34	36	1	0

73

20

WIND [illegible]

LCC - VSBY	0-3	[illegible]	[illegible]	[illegible]	≥34
<1.5 & OR <.5	0	0	[illegible]	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	4	0	0
<20 & OR <5	0	2	18	2	0
VSBY ≥5	1	16	78	8	0
≥50 & ≥5	1	12	66	6	0
NC & ≥10	1	11	65	4	0

201

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	3	2	0
VSBY <2	0	0	+	+	0
<10 & OR <2	0	2	12	4	0
<20 & OR <5	0	6	20	5	0
VSBY ≥5	1	22	64	9	0
≥50 & ≥5	1	16	45	4	0
NC & ≥10	1	14	39	3	0

230

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	6	9	0	0
VSBY <2	0	6	9	0	0
<10 & OR <2	0	12	9	0	0
<20 & OR <5	0	15	21	0	0
VSBY ≥5	0	15	59	8	0
≥50 & ≥5	0	15	41	8	0
NC & ≥10	0	15	35	6	0

34

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<5 & OR <2	0	+	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	1	+	0
<20 & OR <5	1	3	3	+	0
VSBY ≥5	15	51	28	5	+
≥50 & ≥5	14	47	24	4	+
NC & ≥10	14	46	24	3	+

658

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	1	+	0
<20 & OR <5	0	13	0	6	0
VSBY ≥5	0	44	50	6	0
≥50 & ≥5	0	31	50	0	0
NC & ≥10	0	31	44	0	0

16

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	+	1
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	2	2
<20 & OR <5	0	4	7	6	3
VSBY ≥5	4	31	40	19	5
≥50 & ≥5	4	26	31	12	2
NC & ≥10	4	26	30	10	1

570

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	4	4	1
<20 & OR <5	1	1	8	8	1
VSBY ≥5	4	27	50	16	1
≥50 & ≥5	2	26	39	8	0
NC & ≥10	2	25	37	8	0

92

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	3	0	0
<20 & OR <5	1	10	16	8	0
VSBY ≥5	8	30	37	22	4
≥50 & ≥5	3	16	15	13	3
NC & ≥10	3	16	13	10	3

79

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	2	0	1
VSBY <2	0	0	0	+	1
<10 & OR <2	0	1	7	1	8
<20 & OR <5	0	2	16	7	10
VSBY ≥5	0	14	43	24	13
≥50 & ≥5	0	11	22	13	7
NC & ≥10	0	10	20	13	1

83

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<5 & OR <2	0	+	1	1	1
VSBY <2	0	+	0	+	0
<10 & OR <2	+	2	4	4	1
<20 & OR <5	+	8	10	9	2
VSBY ≥5	2	31	38	21	5
≥50 & ≥5	1	20	21	10	2
NC & ≥10	1	18	19	8	1

337

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	+
<5 & OR <2	+	+	+	1	+
VSBY <2	0	+	0	+	0
<10 & OR <2	+	2	4	3	1
<20 & OR <5	1	5	13	8	3
VSBY ≥5	6	24	48	17	4
≥50 & ≥5	3	17	29	10	2
NC & ≥10	3	16	27	9	1

916

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	8	13	0	3
<20 & OR <5	0	13	22	8	3
VSBY ≥5	0	34	41	22	3
≥50 & ≥5	0	16	13	16	0
NC & ≥10	0	16	13	16	0

32

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without rega
The isopleth analyses (opposite page) are based on all available data subjectively adjusted v

TY-WIND

JUNE

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	+	+	+
<5 & OR <2	0	0	1	2	+
VSBY <2	0	0	+	+	0
<10 & OR <2	0	+	3	6	1
<20 & OR <5	+	2	10	13	1
VSBY ≥5	3	14	43	28	3
≥50 & ≥5	3	12	32	15	1
NC & ≥10	3	11	21	7	1

577

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	1	+	0
<10 & OR <2	0	0	4	2	0
<20 & OR <5	0	1	15	10	0
VSBY ≥5	0	11	63	24	0
≥50 & ≥5	0	8	40	9	0
NC & ≥10	0	6	32	7	0

228

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	+	+	+	+
<5 & OR <2	+	1	2	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	+	2	8	3	+
<20 & OR <5	1	6	18	5	+
VSBY ≥5	5	33	48	8	+
≥50 & ≥5	4	27	31	4	+
NC & ≥10	3	24	26	3	0

6984

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	+	+	+	0
<5 & OR <2	0	+	1	+	0
VSBY <2	0	+	1	+	0
<10 & OR <2	+	1	6	1	+
<20 & OR <5	+	4	18	3	+
VSBY ≥5	1	23	66	7	+
≥50 & ≥5	1	17	43	3	+
NC & ≥10	1	15	36	2	+

1295

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	+	+	0
<5 & OR <2	0	+	1	+	+
VSBY <2	0	0	+	+	+
<10 & OR <2	+	1	6	1	+
<20 & OR <5	+	2	14	4	+
VSBY ≥5	2	16	69	11	+
≥50 & ≥5	2	12	52	7	+
NC & ≥10	2	12	47	8	+

1367

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	+	+	+	+	0
<5 & OR <2	+	2	1	+	0
VSBY <2	+	1	+	+	0
<10 & OR <2	1	5	4	+	0
<20 & OR <5	2	11	11	1	0
VSBY ≥5	13	59	28	1	+
≥50 & ≥5	11	40	17	+	+
NC & ≥10	10	36	16	+	+

2435

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	3	0	0
<20 & OR <5	3	5	11	0	0
VSBY ≥5	9	66	34	0	0
≥50 & ≥5	7	50	21	0	0
NC & ≥10	7	50	20	0	0

117

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	0	0	0
<20 & OR <5	2	12	5	0	0
VSBY ≥5	12	61	27	0	0
≥50 & ≥5	10	44	22	0	0
NC & ≥10	10	39	20	0	0

41

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	3	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	10	0	0	0
<20 & OR <5	3	13	3	0	0
VSBY ≥5	33	67	10	0	0
≥50 & ≥5	27	43	7	0	0
NC & ≥10	27	40	7	0	0

90

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	5	2	0
<20 & OR <5	1	4	10	3	0
VSBY ≥5	2	25	61	10	0
≥50 & ≥5	1	20	43	7	0
NC & ≥10	1	20	42	6	0

357

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	2	1	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	1	5	5	2
<20 & OR <5	1	4	17	14	2
VSBY ≥5	1	18	49	26	4
≥50 & ≥5	0	14	31	9	1
NC & ≥10	0	14	27	7	1

169

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	1	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	2	0
<20 & OR <5	0	3	13	4	0
VSBY ≥5	1	21	55	20	1
≥50 & ≥5	1	14	34	8	1
NC & ≥10	1	13	30	8	0

126

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	6	3	0	0
VSBY <2	0	6	3	0	0
<10 & OR <2	0	12	9	0	0
<20 & OR <5	0	15	21	0	0
VSBY ≥5	0	16	59	6	0
≥50 & ≥5	0	15	41	6	0
NC & ≥10	0	16	36	6	0

34

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	+	0	0
<5 & OR <2	0	+	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	1	+	0
<20 & OR <5	1	3	3	+	0
VSBY ≥5	15	51	28	5	+
≥50 & ≥5	14	47	24	4	+
NC & ≥10	14	46	24	3	+

658

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	0	6	0
<20 & OR <5	0	13	0	6	0
VSBY ≥5	0	44	50	6	0
≥50 & ≥5	0	31	50	0	0
NC & ≥10	0	31	44	0	0

16

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	1	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	6	1	0
<20 & OR <5	1	10	18	2	0
VSBY ≥5	7	38	48	7	0
≥50 & ≥5	6	21	21	4	0
NC & ≥10	6	20	20	2	0

143

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	0	0
<20 & OR <5	1	4	8	1	0
VSBY ≥5	4	35	53	6	1
≥50 & ≥5	3	24	36	5	0
NC & ≥10	2	22	35	4	0

155

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	1	1	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	1	3	7	3	0
<20 & OR <5	2	9	16	5	0
VSBY ≥5	4	43	40	10	1
≥50 & ≥5	2	31	24	4	1
NC & ≥10	2	30	23	4	1

107

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	1	0	0
<5 & OR <2	0	0	2	0	1
VSBY <2	0	0	0	0	1
<10 & OR <2	0	1	7	1	6
<20 & OR <5	0	2	16	7	10
VSBY ≥5	0	14	43	24	13
≥50 & ≥5	0	11	22	13	7
NC & ≥10	0	10	20	13	1

83

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	+	0	0
<5 & OR <2	0	+	1	1	1
VSBY <2	0	+	0	+	0
<10 & OR <2	+	2	4	4	1
<20 & OR <5	+	9	10	9	2
VSBY ≥5	2	31	38	21	5
≥50 & ≥5	1	20	21	10	2
NC & ≥10	1	18	19	9	1

337

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	+
<5 & OR <2	+	+	+	1	+
VSBY <2	0	+	0	+	0
<10 & OR <2	+	2	4	3	1
<20 & OR <5	1	6	13	6	3
VSBY ≥5	5	24	48	17	4
≥50 & ≥5	3	17	29	10	2
NC & ≥10	3	16	27	9	1

918

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	+	2
<5 & OR <2	0	1	0	1	2
VSBY <2	0	+	0	0	1
<10 & OR <2	1	3	7	5	3
<20 & OR <5	1	6	14	8	6
VSBY ≥5	5	17	50	16	6
≥50 & ≥5	4	12	31	9	2
NC & ≥10	4	12	29	9	1

276

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	1	2
<5 & OR <2	0	1	2	3	0
VSBY <2	0	1	1	1	0
<10 & OR <2	0	4	9	5	3
<20 & OR <5	0	10	22	7	3
VSBY ≥5	3	27	43	16	4
≥50 & ≥5	3	18	22	9	1
NC & ≥10	3	15	20	8	1

143

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	13	0	3
<20 & OR <5	0	13	22	6	3
VSBY ≥5	0	34	41	22	3
≥50 & ≥5	0	18	13	18	0
NC & ≥10	0	18	13	18	0

32

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <1.5	0	0	0	0	2
<5 & OR <2	0	0	2	0	6
VSBY <2	0	0	0	0	2
<10 & OR <2	0	2	5	13	10
<20 & OR <5	2	7	13	15	11
VSBY ≥5	7	26	28	26	10
≥50 & ≥5	3	18	11	8	2
NC & ≥10	3	13	11	8	2

61

INSUFFICIENT DATA

44

INSUFFICIENT DATA

45

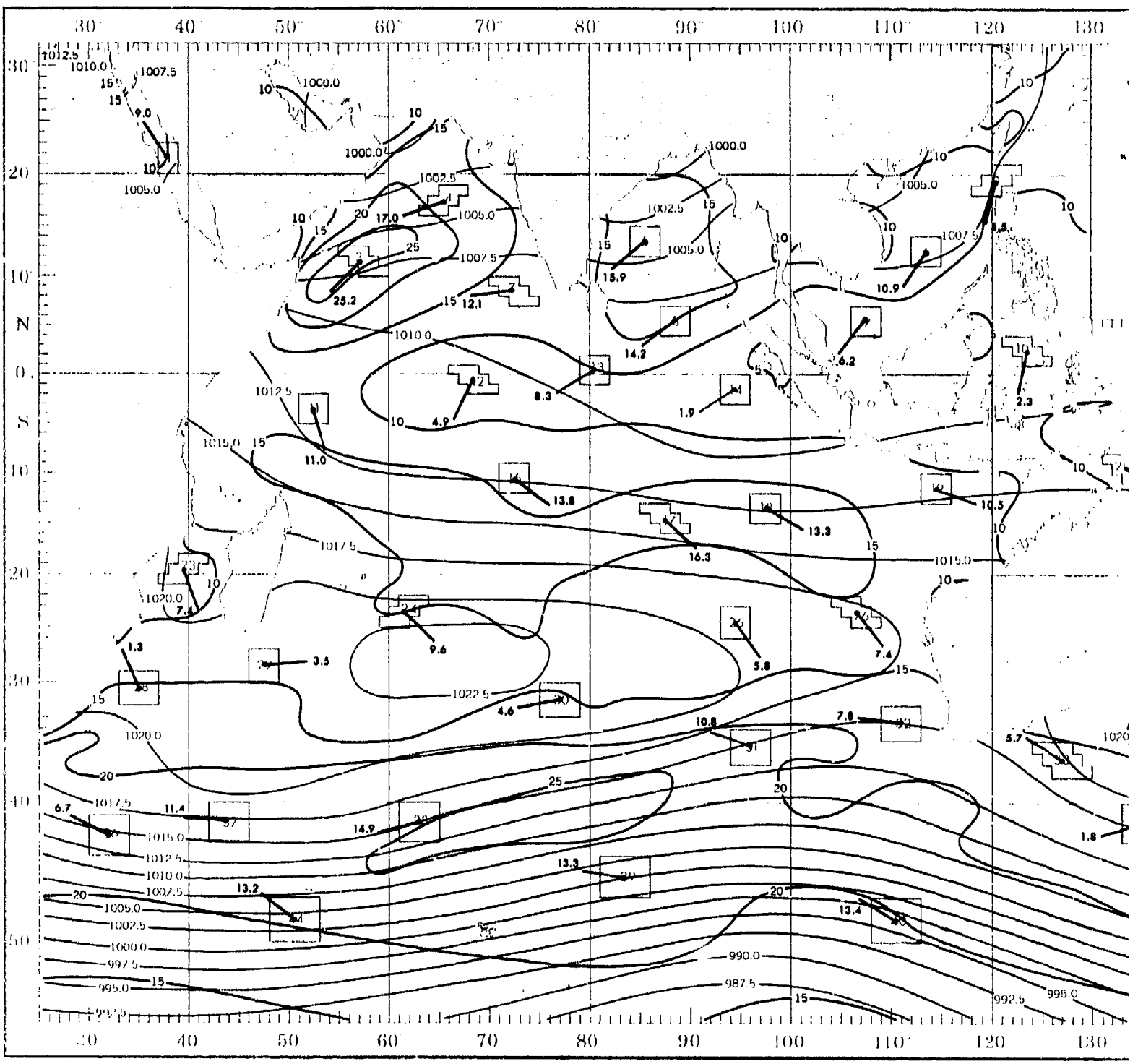
INSUFFICIENT DATA

ve compilation of available data for specified areas without regard to suspected biases.

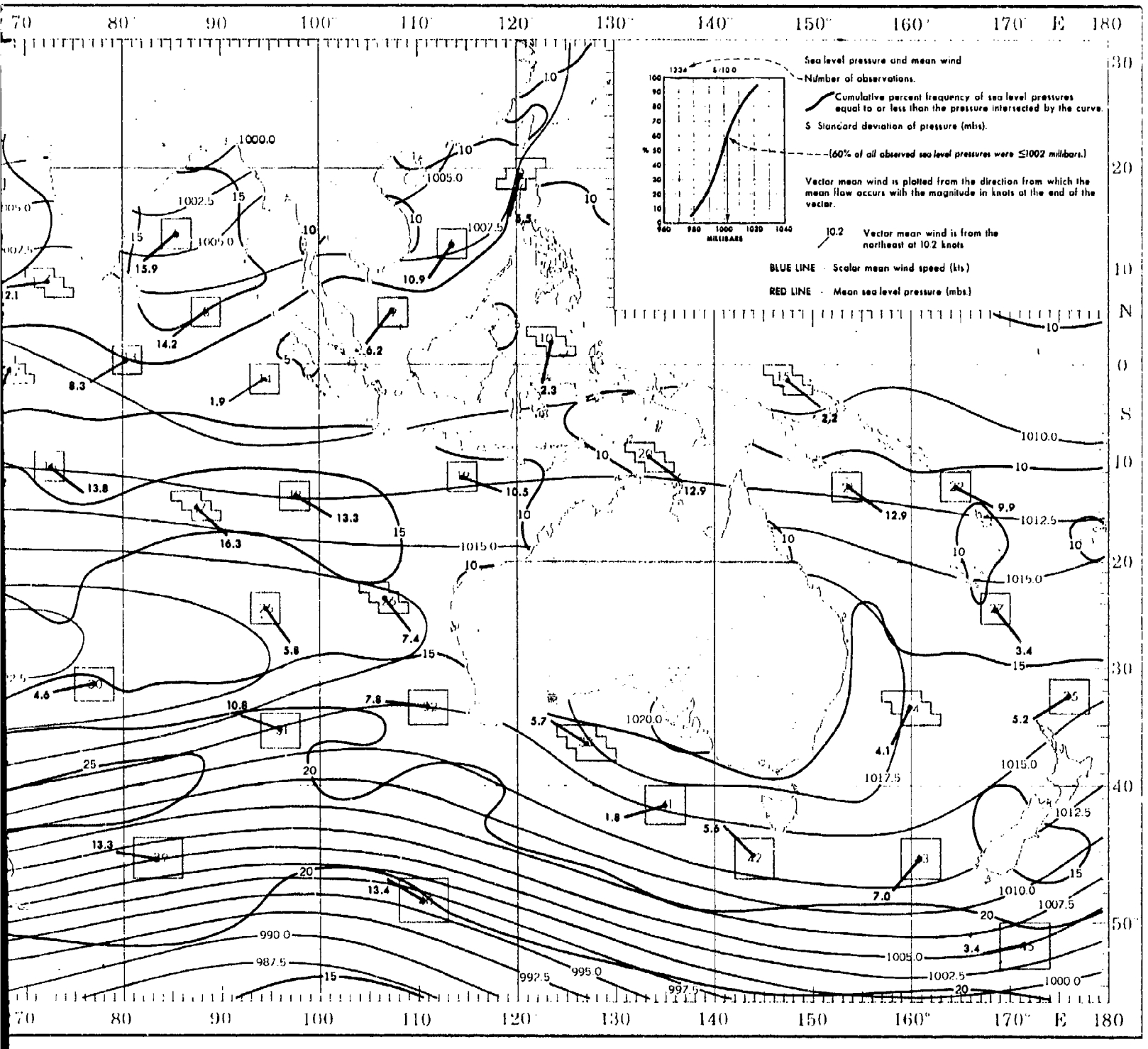
ite page) are based on all available data subjectively adjusted where bias was evident.

JUNE

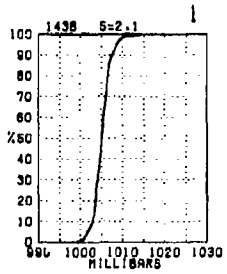
SEA LEVEL PRE

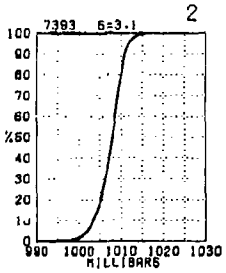


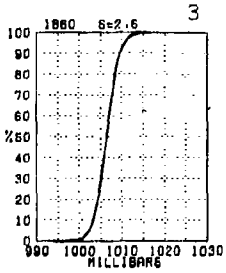
SEA LEVEL PRESSURE AND MEAN WIND

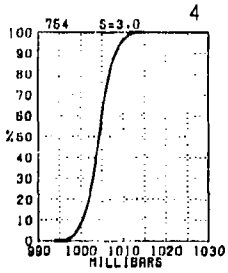


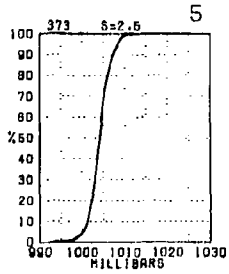
SEA LEVEL PRESSURE

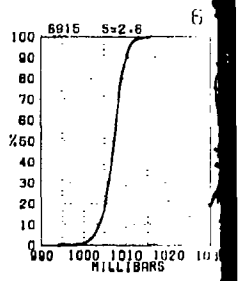


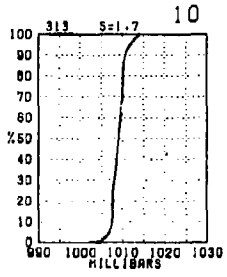


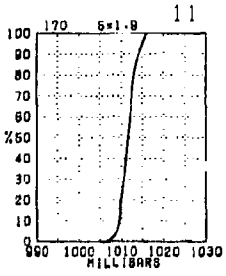


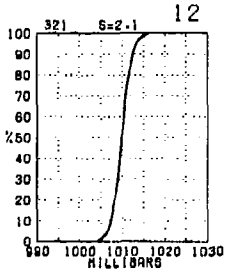


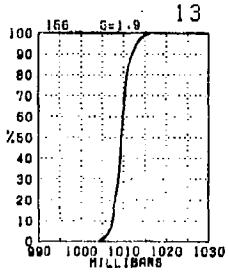


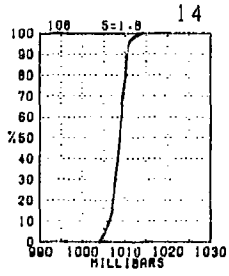


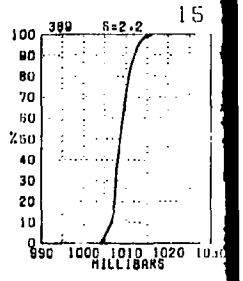


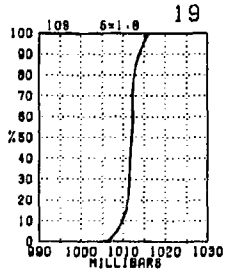


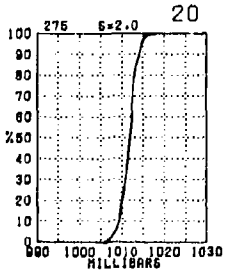


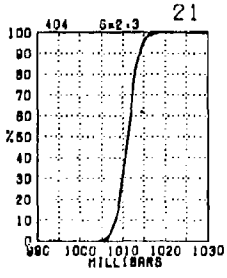


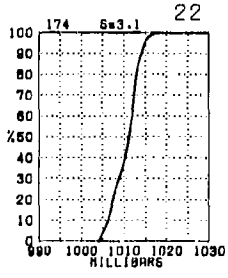


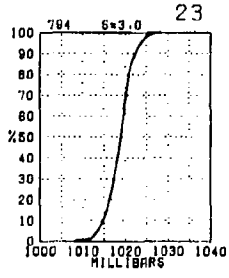


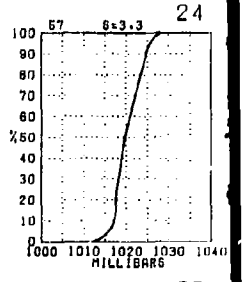


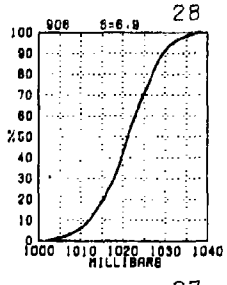


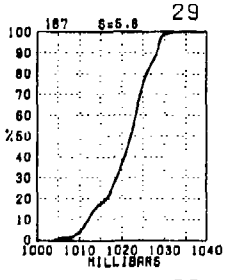


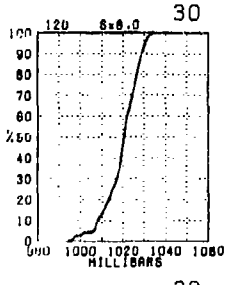


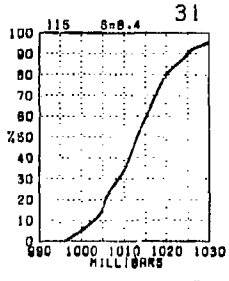


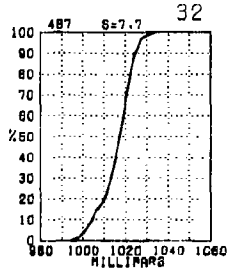


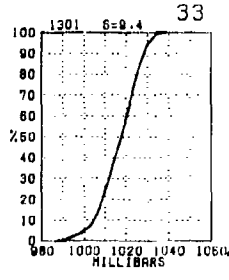


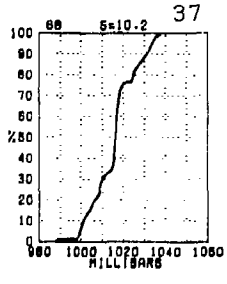


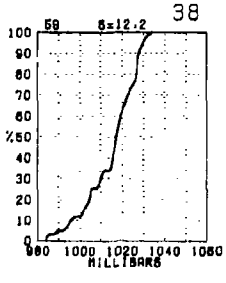


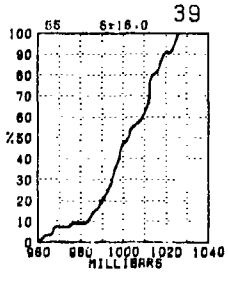












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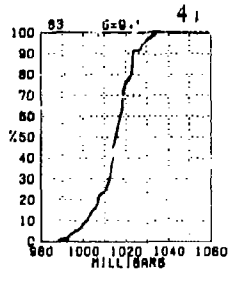

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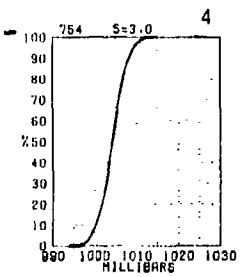
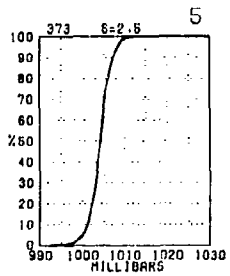
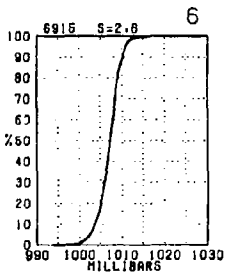
INSUFFICIENT DATA

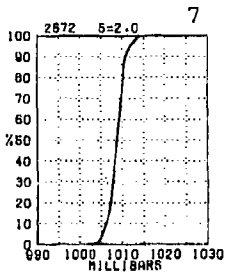
Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

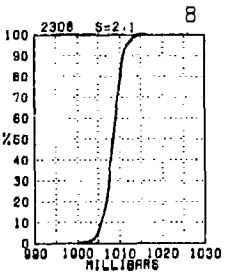
JUNE

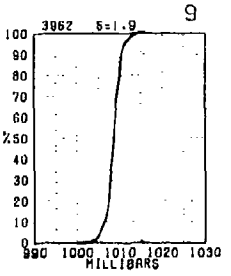


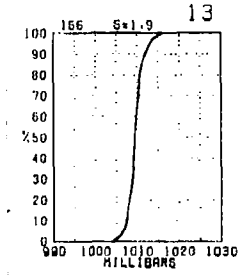


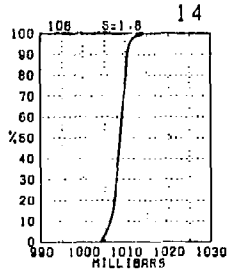


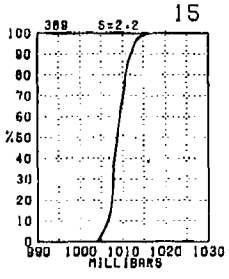


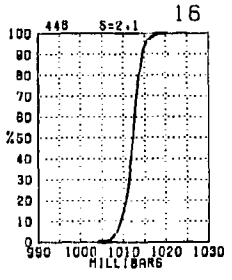


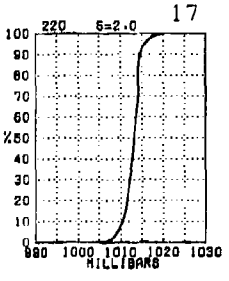


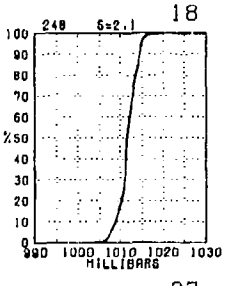


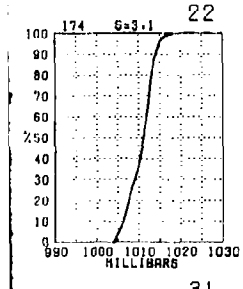


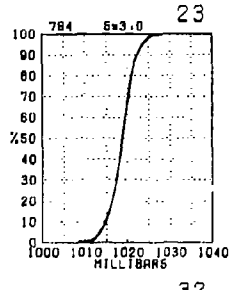


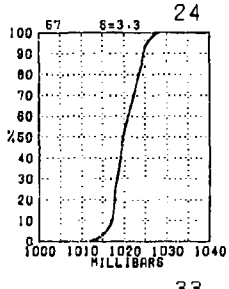


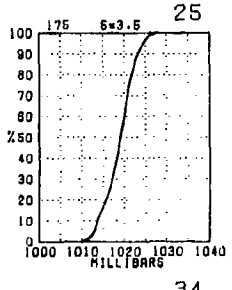


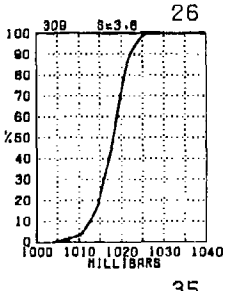


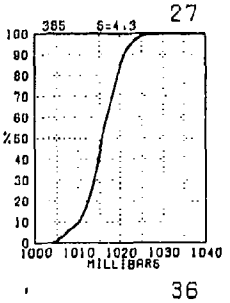


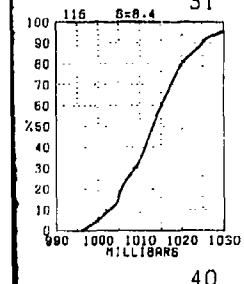


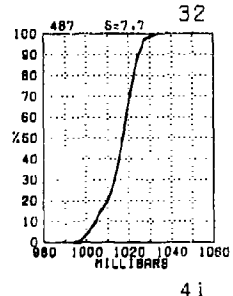


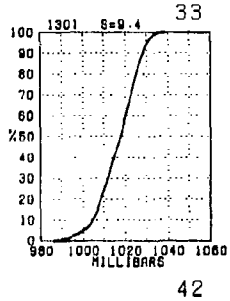


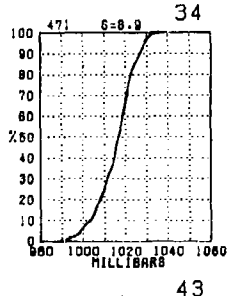


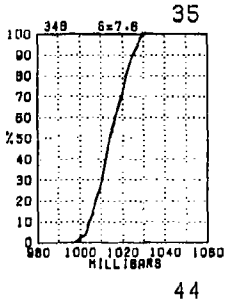












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INSUFFICIENT DATA

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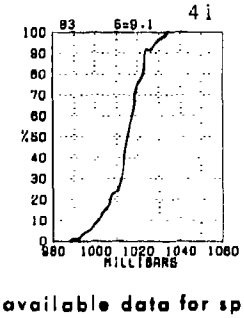
INSUFFICIENT DATA



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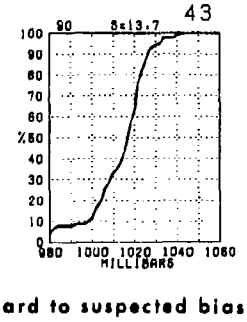

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INSUFFICIENT DATA

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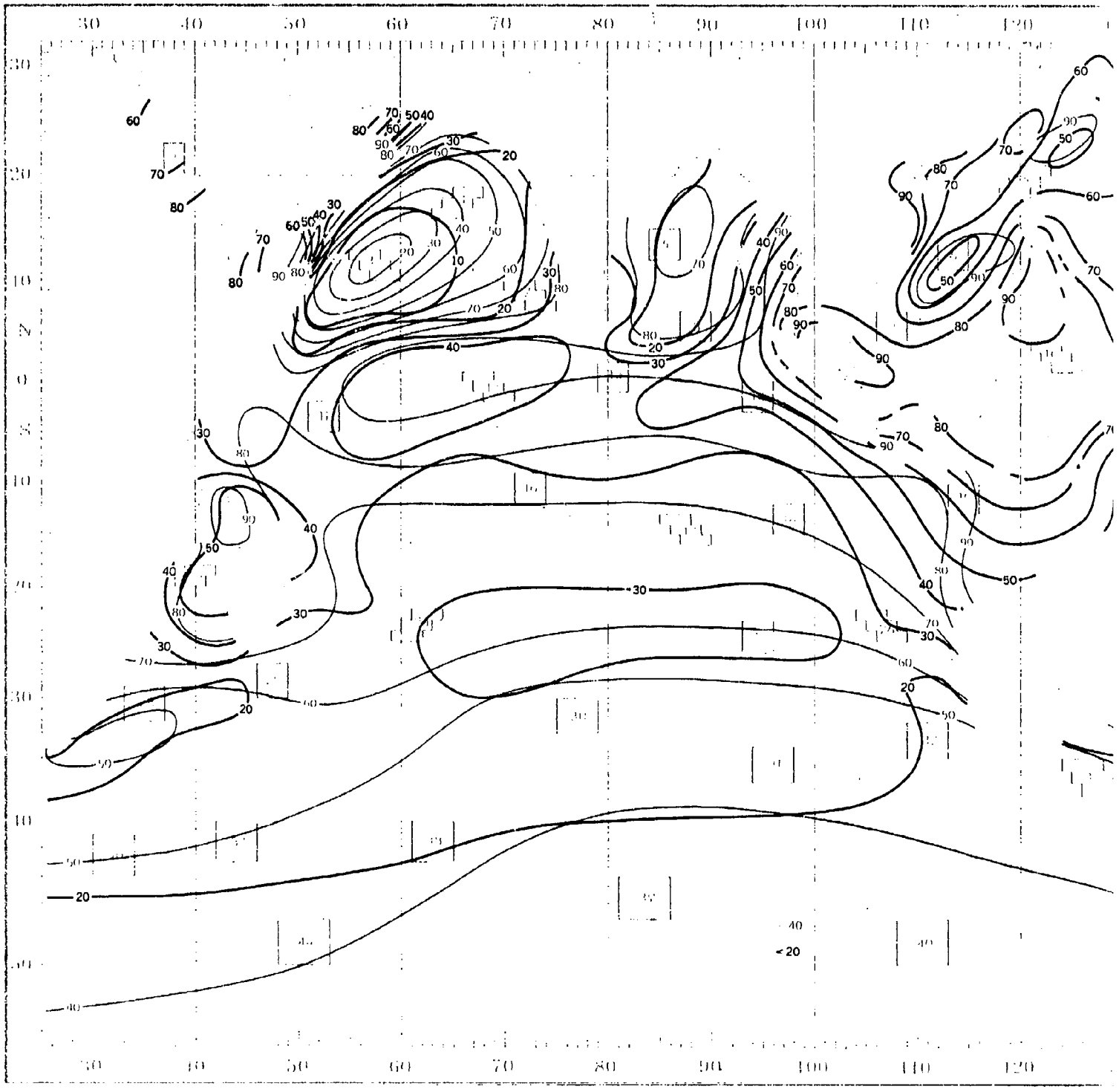
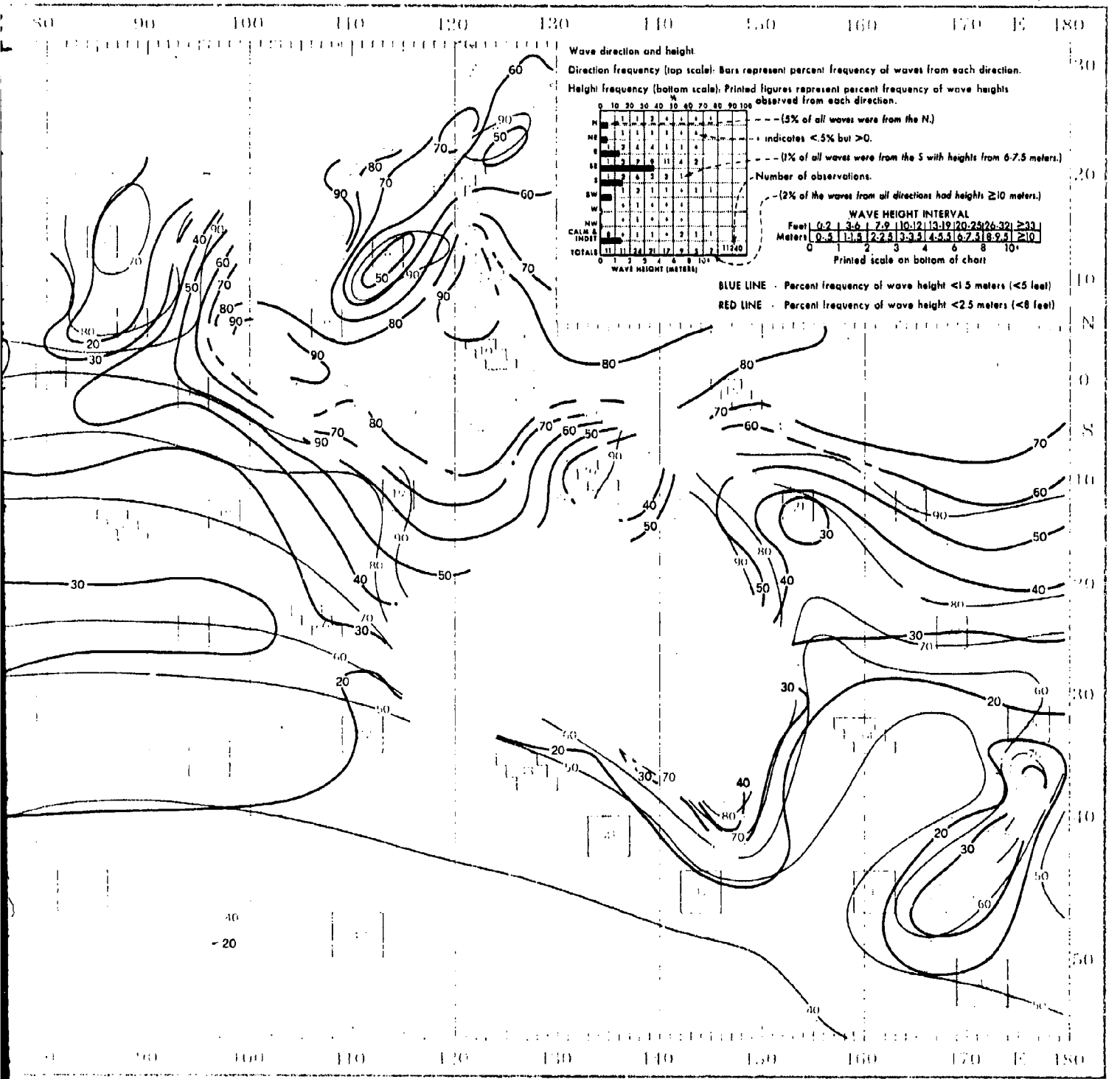
INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

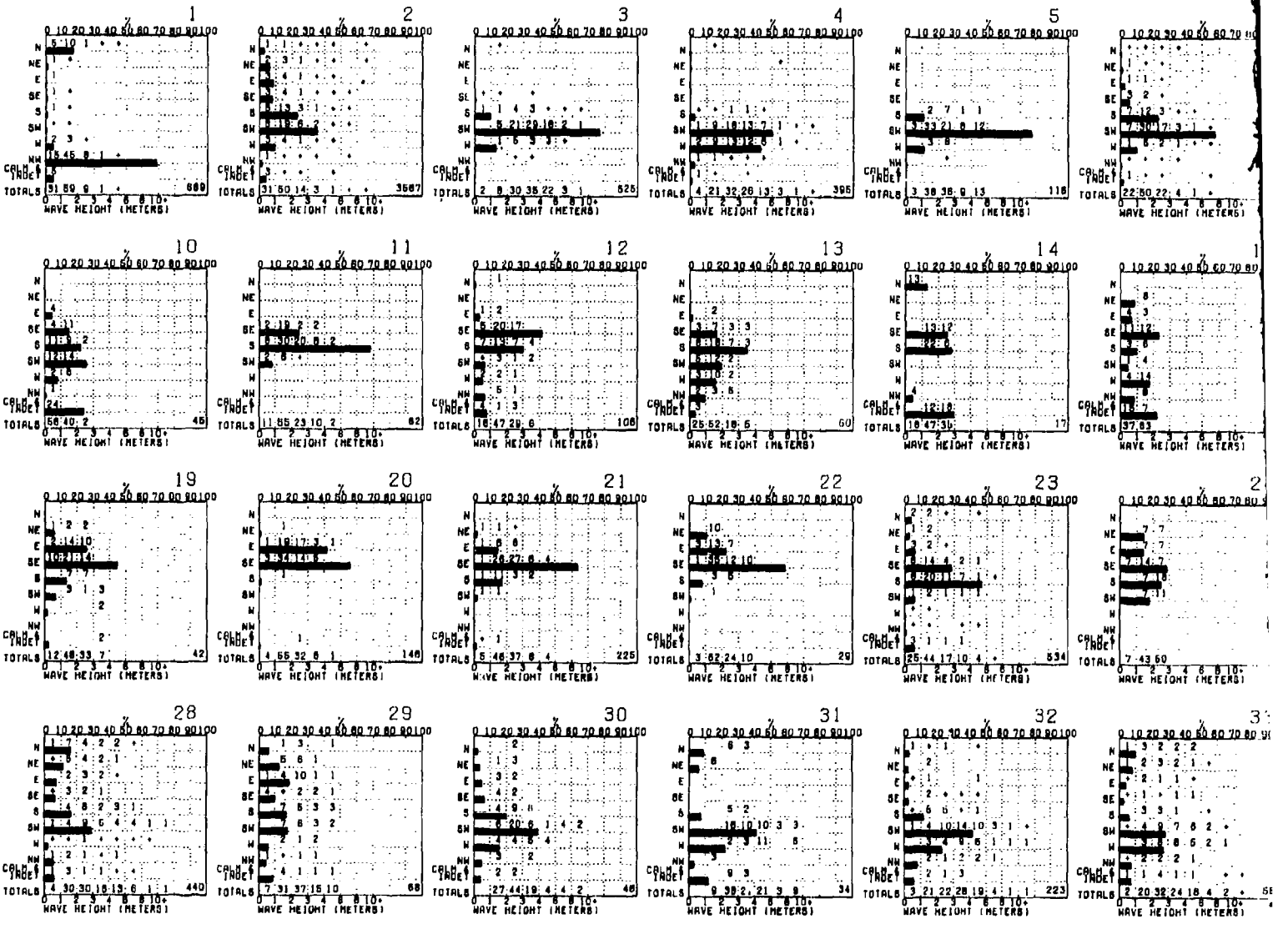
JUNE WAVE



WAVES (<1.5 AND <2.5 METERS)



WAVE DIRECTION AND HEIGHT



37 INSUFFICIENT DATA

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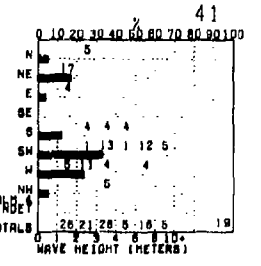
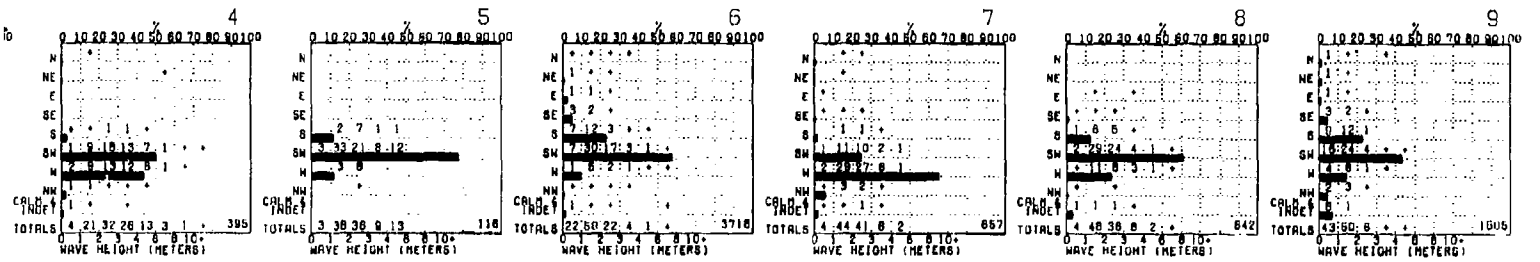
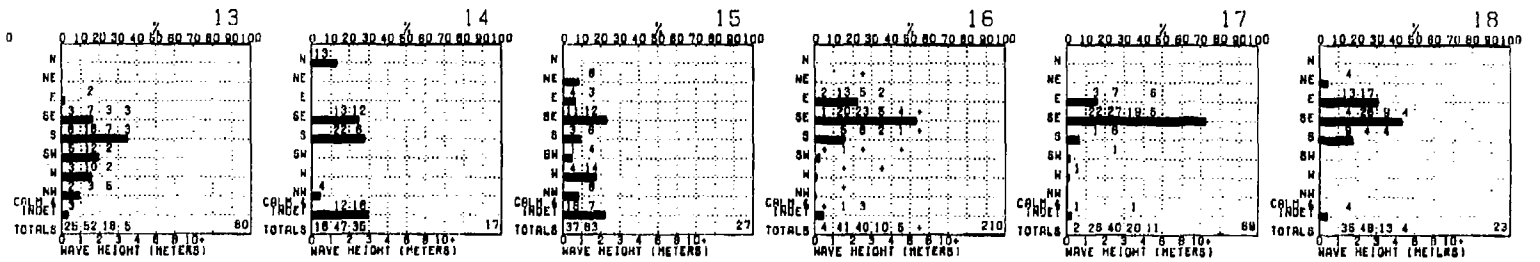
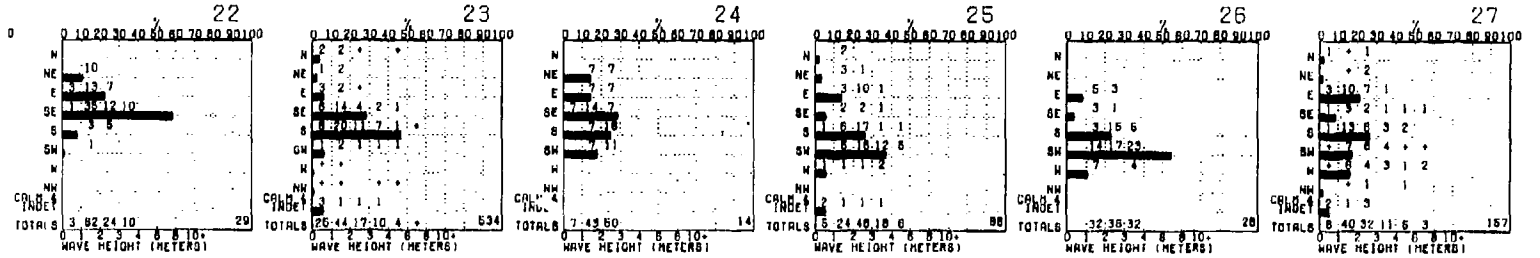


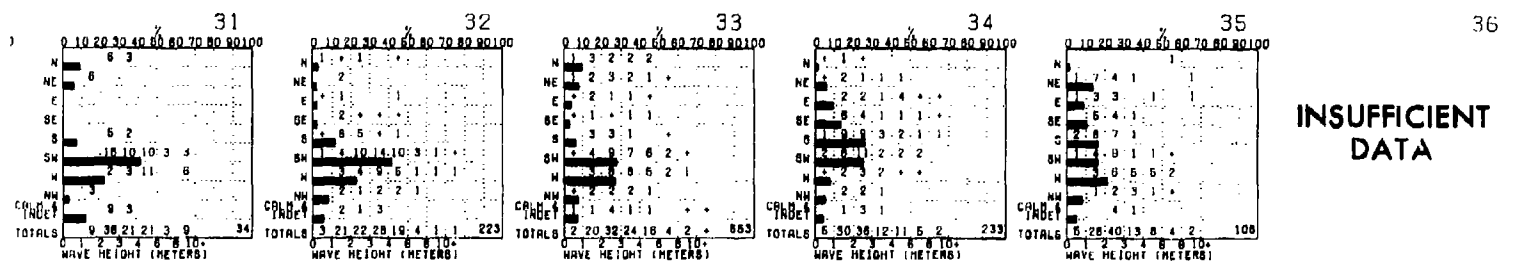
42 INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust









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INSUFFICIENT DATA

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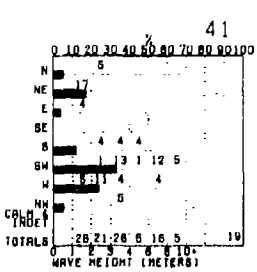

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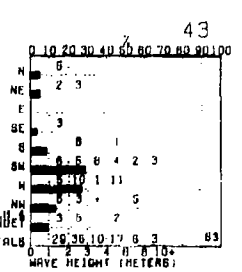
INSUFFICIENT DATA



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INSUFFICIENT DATA

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INSUFFICIENT DATA

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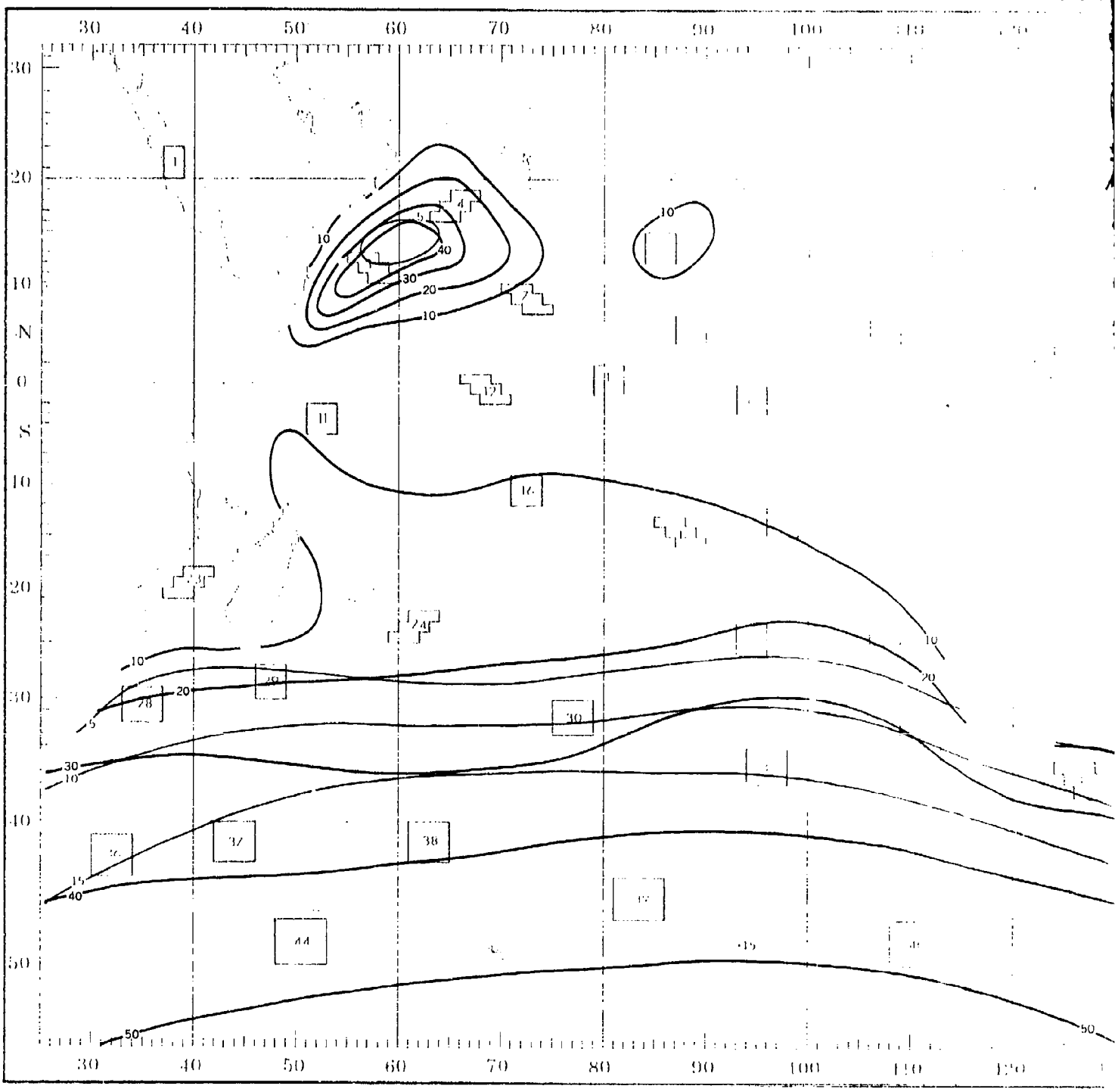
JUNE

WAV



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90
100
110
120
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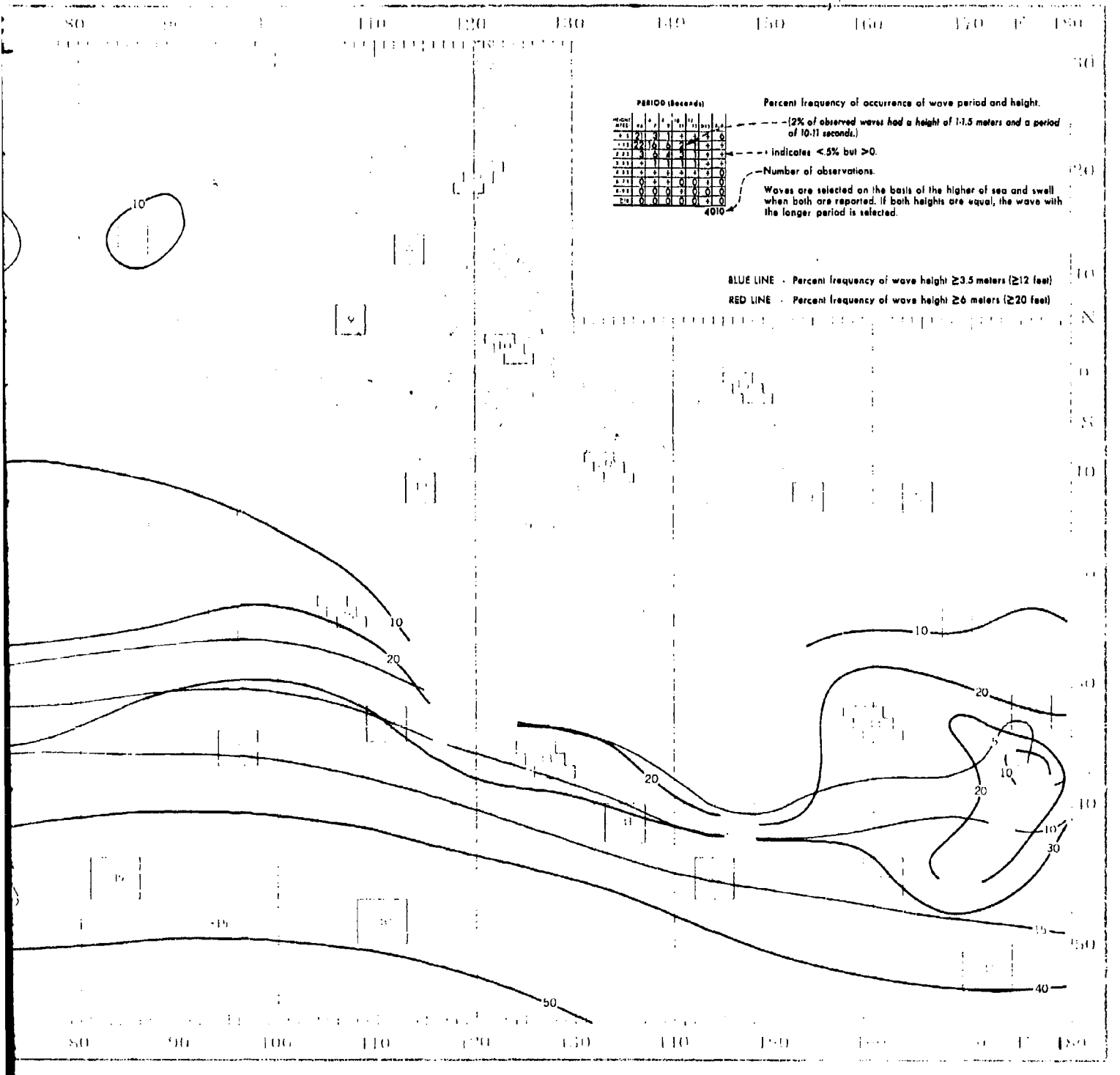
50

WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	25	1	0	+	0	0	10
1-1.5	33	16	2	+	0	0	3
2-2.5	3	4	2	+	0	0	+
3-3.5	+	1	+	+	0	0	0
4-4.5	0	0	+	+	0	0	0
5-7.5	J	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

747

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	26	3	1	+	0	0	4
1-1.5	25	17	3	1	+	0	1
2-2.5	2	4	5	1	+	+	+
3-3.5	+	1	1	1	+	+	+
4-4.5	0	+	+	+	+	0	+
5-7.5	0	0	0	+	+	+	0
8-9.5	0	0	0	0	0	+	0
>10	0	0	0	0	0	0	0

3736

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	1	0	0	0	1
1-1.5	3	2	1	1	0	0	1
2-2.5	3	9	10	3	+	0	5
3-3.5	1	7	11	7	2	1	5
4-4.5	2	3	5	7	2	1	2
5-7.5	0	+	+	1	+	+	1
8-9.5	0	0	+	1	+	0	0
>10	0	0	0	0	0	0	0

628

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	+	0	0	0	+
1-1.5	7	10	2	0	0	+	1
2-2.5	5	9	11	3	+	0	2
3-3.5	2	4	7	9	2	+	1
4-4.5	+	2	2	4	2	2	1
5-7.5	0	+	1	1	1	1	1
8-9.5	0	0	+	0	+	0	0
>10	0	0	0	0	0	+	0

401

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	1	0	0	0	1
1-1.5	15	17	2	0	0	0	3
2-2.5	7	11	14	3	0	1	1
3-3.5	1	4	2	2	0	0	1
4-4.5	1	3	9	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

117

6

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	22	1	+	+	0	0	0
1-1.5	27	17	3	1	+	+	+
2-2.5	4	9	6	2	+	+	+
3-3.5	+	1	1	1	+	+	+
4-4.5	+	+	+	+	+	+	+
5-7.5	0	+	0	+	0	+	+
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3880

10

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	35	2	0	0	0	0	24
1-1.5	24	12	0	0	0	0	0
2-2.5	0	0	2	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

49

11

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	10	0	2	0	0	0	0
1-1.5	31	16	3	5	0	0	0
2-2.5	2	13	3	2	0	0	3
3-3.5	0	2	6	2	0	0	0
4-4.5	0	0	2	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

62

12

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	3	0	0	0	0	5
1-1.5	6	20	11	3	1	1	1
2-2.5	2	10	11	1	0	0	3
3-3.5	0	0	5	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

115

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	13	8	0	0	0	0	3
1-1.5	10	23	13	3	2	0	0
2-2.5	2	8	5	3	0	0	0
3-3.5	0	0	5	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

60

14

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	22	0	0	0	0	0	0
1-1.5	6	11	0	8	11	0	11
2-2.5	0	5	8	0	6	0	17
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

18

15

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	25	0	0	0	0	0	14
1-1.5	25	25	4	9	4	0	4
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	J	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

19

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	12	0	0	0	0	0	0
1-1.5	14	21	7	0	2	0	2
2-2.5	0	12	12	10	0	0	0
3-3.5	0	0	0	5	0	0	2
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

42

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	23	24	8	0	0	0	1
2-2.5	3	19	9	0	0	0	1
3-3.5	1	3	3	0	1	0	0
4-4.5	0	0	1	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

148

21

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	0	0	0	0	1
1-1.5	19	17	5	1	1	0	3
2-2.5	3	19	12	4	0	0	+
3-3.5	1	1	4	0	1	0	0
4-4.5	1	1	1	0	0	+	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

226

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	3	0	0	0	0	0
1-1.5	31	21	10	0	0	0	0
2-2.5	7	10	0	7	0	0	0
3-3.5	0	10	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

29

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	21	1	1	1	0	0	4
1-1.5	20	11	4	2	1	0	4
2-2.5	3	6	4	2	1	+	2
3-3.5	+	4	3	2	+	0	+
4-4.5	0	1	1	1	+	0	+
5-7.5	0	0	+	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

565

24

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	0	0	0	0	0	0
1-1.5	14	14	14	0	0	0	0
2-2.5	7	0	14	7	14	0	7
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

14

28

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	1
1-1.5	10	10	4	1	1	0	4
2-2.5	8	12	5	2	2	0	1
3-3.5	2	5	6	1	+	0	1
4-4.5	1	2	2	3	2	2	+
5-7.5	0	0	2	2	1	+	+
8-9.5	0	+	0	+	+	0	0
>10	0	+	0	0	+	+	0

443

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	0	0	0	0	0	0
1-1.5	6	12	8	0	1	1	4
2-2.5	4	15	10	1	3	0	3
3-3.5	1	4	6	0	1	0	1
4-4.5	1	0	6	1	0	0	1
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

68

30

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	8	4	6	2	2	0	4
2-2.5	10	4	15	4	6	0	4
3-3.5	2	4	2	0	6	0	4
4-4.5	0	0	2	2	0	0	0
5-7.5	0	0	0	2	2	0	0
8-9.5	0	0	0	0	2	0	0
>10	0	0	0	0	0	0	0

48

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	9	0	0	0	0	0
2-2.5	0	6	12	12	0	0	9
3-3.5	6	3	8	0	0	3	3
4-4.5	3	9	5	0	0	3	0
5-7.5	0	0	0	3	0	0	0
8-9.5	0	0	0	3	0	6	0
>10	0	0	0	0	0	0	0

34

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	8	8	5	+	0	0	2
2-2.5	1	8	4	4	3	0	1
3-3.5	+	4	7	10	1	1	4
4-4.5	1	3	5	4	3	2	0
5-7.5	0	0	1	+	1	2	0
8-9.5	0	0	0	0	+	+	+
>10	0	0	0	0	1	0	0

223

33

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	8	6	5	2	+	0	1
2-2.5	2	9	9	5	3	+	4
3-3.5	0	4	5	7	5	1	2
4-4.5	+	3	3	3	4	1	1
5-7.5	0	+	1	1	1	1	0
8-9.5	0	0	0	+	0	1	0
>10	0	0	0	0	0	0	+

554

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	21	5	0	0	0	0
2-2.5	0	18	5	0	0	0	0
3-3.5	0	18	7	0	5	0	0
4-4.5	0	0	0	0	0	5	0
5-7.5	0	0	0	0	18	0	0
8-9.5	0	0	0	0	5	0	0
>10	0	0	0	0	0	0	0

19

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

JUNE

4

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	+	0	0	0	+
1-1.5	7	10	2	0	0	+	1
2-2.5	5	9	11	3	+	0	2
3-3.5	2	4	7	9	2	+	1
4-4.5	+	2	2	4	2	2	1
5-7.5	0	+	1	1	1	1	1
8-9.5	0	0	+	0	+	0	0
>10	0	0	0	0	0	+	0

401

5

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	1	0	0	0	1
1-1.5	15	17	2	0	0	0	3
2-2.5	7	11	14	3	0	1	1
3-3.5	1	4	2	2	0	0	1
4-5.5	1	3	9	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

117

6

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	22	1	+	+	0	0	2
1-1.5	27	17	3	1	+	+	1
2-2.5	4	9	6	2	+	+	+
3-3.5	+	1	1	1	+	+	+
4-5.5	+	+	+	+	+	+	+
6-7.5	0	+	0	+	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3868

7

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	+	+	+	0	0	1
1-1.5	13	16	6	3	1	+	5
2-2.5	5	14	13	4	1	1	4
3-3.5	1	1	2	2	2	+	+
4-5.5	0	1	1	+	0	+	+
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

662

8

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	2	+	+	+	0	0	1
1-1.5	15	18	8	2	1	0	4
2-2.5	4	13	12	5	1	+	2
3-3.5	1	2	1	1	1	+	1
4-5.5	+	+	1	+	+	+	+
6-7.5	0	+	0	0	0	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

845

9

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	36	2	+	+	0	0	9
1-1.5	27	14	3	0	1	+	2
2-2.5	1	3	2	+	+	+	+
3-3.5	0	+	+	+	+	0	0
4-5.5	+	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1632

13

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	13	8	0	0	0	0	3
1-1.5	10	23	13	3	[illegible]		0
2-2.5	2	8	5	3	0	0	0
3-3.5	0	0	3	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

60

14

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	22	0	0	0	0	0	0
1-1.5	6	11	0	6	11	0	11
2-2.5	0	6	6	0	6	0	17
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

18

15

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	25	0	0	0	0	0	14
1-1.5	25	25	4	0	4	0	4
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

16

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	1
1-1.5	18	14	7	1	+	0	1
2-2.5	0	9	23	4	1	0	3
3-3.5	0	+	5	3	+	0	1
4-5.5	+	1	0	2	1	0	+
6-7.5	0	0	0	0	+	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

211

17

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	1	0	0	0	0	0	1
1-1.5	10	10	3	1	1	0	0
2-2.5	1	11	21	3	2	1	1
3-3.5	0	8	10	1	0	0	1
4-5.5	0	0	8	3	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

89

18

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	8	8	4	8	0	0	4
2-2.5	17	4	8	0	4	0	13
3-3.5	0	0	0	8	4	0	0
4-5.5	0	0	0	0	0	0	4
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

24

22

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	3	0	0	0	0	0
1-1.5	31	21	10	0	0	0	[illegible]
2-2.5	7	10	0	7	0	0	0
3-3.5	0	10	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

29

23

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	21	1	1	1	0	0	4
1-1.5	20	11	4	2	1	0	4
2-2.5	3	8	4	2	1	+	2
3-3.5	+	4	3	2	+	0	+
4-5.5	0	1	1	1	+	0	+
6-7.5	0	0	+	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

555

24

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	7	0	0	0	0	0	0
1-1.5	14	14	14	0	0	0	0
2-2.5	7	0	14	7	14	0	7
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

14

25

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	2	0	0	1	0	0	2
1-1.5	2	10	4	1	1	0	4
2-2.5	0	11	20	13	1	0	1
3-3.5	1	1	12	1	1	2	1
4-5.5	0	1	1	1	1	1	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

89

26

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	11	7	7	0	0	0	7
2-2.5	0	0	25	7	0	0	4
3-3.5	0	0	7	18	7	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

27

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	1	0	0	0	0	3
1-1.5	12	16	8	3	0	0	1
2-2.5	3	14	11	1	2	0	1
3-3.5	1	3	4	3	0	0	0
4-5.5	0	1	1	1	1	0	1
6-7.5	0	0	3	0	1	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

160

31

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	9	0	0	0	0	0
2-2.5	0	6	12	12	0	0	9
3-3.5	6	3	6	0	0	3	3
4-5.5	3	9	6	0	0	3	0
6-7.5	0	0	0	3	0	0	0
8-9.5	0	0	0	3	0	6	0
>10	0	0	0	0	0	0	0

34

32

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	6	8	5	+	0	0	2
2-2.5	1	8	4	4	3	0	1
3-3.5	+	4	7	10	1	1	4
4-5.5	1	3	5	4	3	2	0
6-7.5	0	0	[illegible]	+	1	2	0
8-9.5	0	0	0	0	+	+	+
>10	0	0	0	0	1	0	0

223

33

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	8	5	5	2	+	0	1
2-2.5	2	9	9	5	3	+	4
3-3.5	0	4	6	7	5	1	2
4-5.5	+	3	3	3	4	1	1
6-7.5	0	+	1	1	1	[illegible]	
8-9.5	0	0	0	+	0		
>10	0	0	0	0	[illegible]		

854

34

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	6	0	0	+	0	0	0
1-1.5	11	14	3	+	0	0	1
2-2.5	5	15	9	4	+	0	2
3-3.5	+	2	6	2	0	+	1
4-5.5	1	3	2	3	1	+	+
6-7.5	0	2	2	2	0	0	0
8-9.5	0	0	1	+	0	+	0
>10	0	0	0	0	0	0	0

236

35

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	4	0	1	1	0	0	0
1-1.5	9	14	3	0	0	1	1
2-2.5	7	12	10	7	2	0	1
3-3.5	0	7	2	2	1	0	1
4-5.5	0	3	5	1	0	0	0
6-7.5	0	1	2	0	1	0	0
8-9.5	0	0	0	0	0	2	0
>10	0	0	0	0	0	0	0

107

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	21	5	0	0	0	0
2-2.5	0	16	5	0	0	0	0
3-3.5	0	16	5	0	5	0	0
4-5.5	0	0	0	0	0	5	0
6-7.5	0	0	0	16	0	0	0
8-9.5	0	0	0	0	5	0	0
>10	0	0	0	0	0	0	0

19

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	2	0	0	0	0	0	0
1-1.5	5	11	2	6	0	0	3
2-2.5	2	11	11	3	2	0	6
3-3.5	0	2	3	5	0	0	0
4-5.5	0	3	11	2	2	0	0
6-7.5	0	0	2	5	0	0	0
8-9.5	0	0	3	0	0	0	0
>10	0	0	0	0	0	0	0

64

44

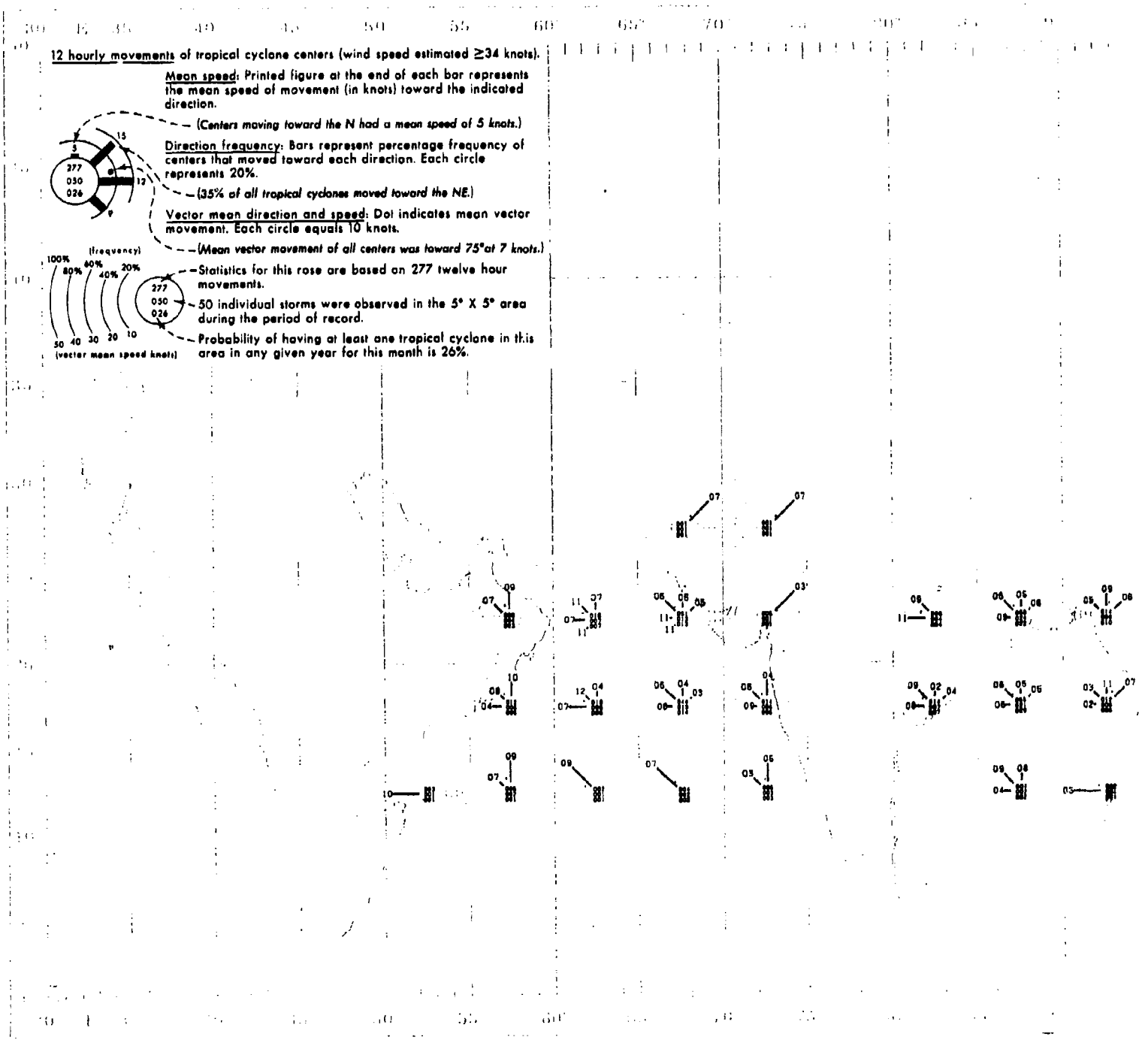
INSUFFICIENT DATA

45

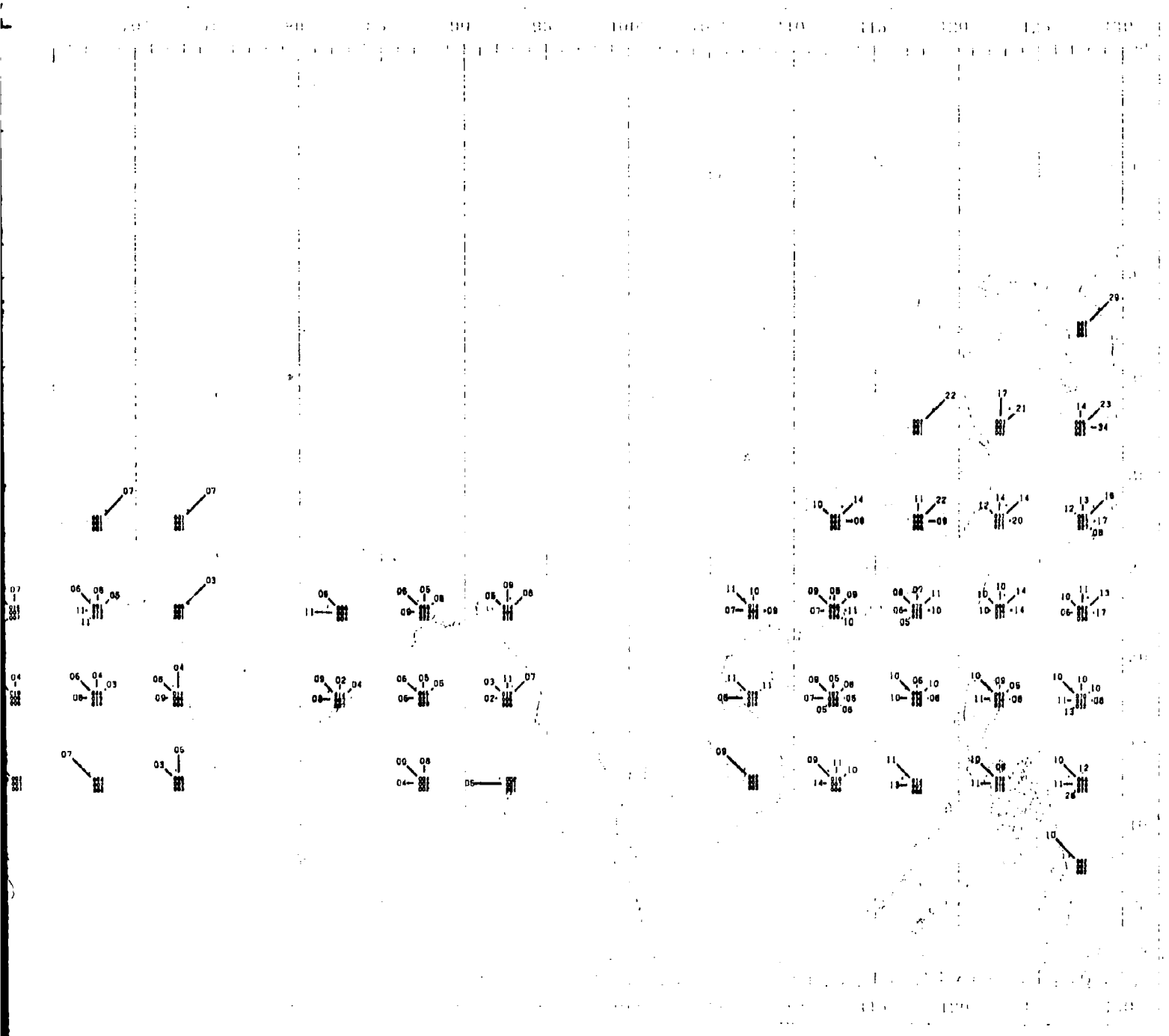
INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

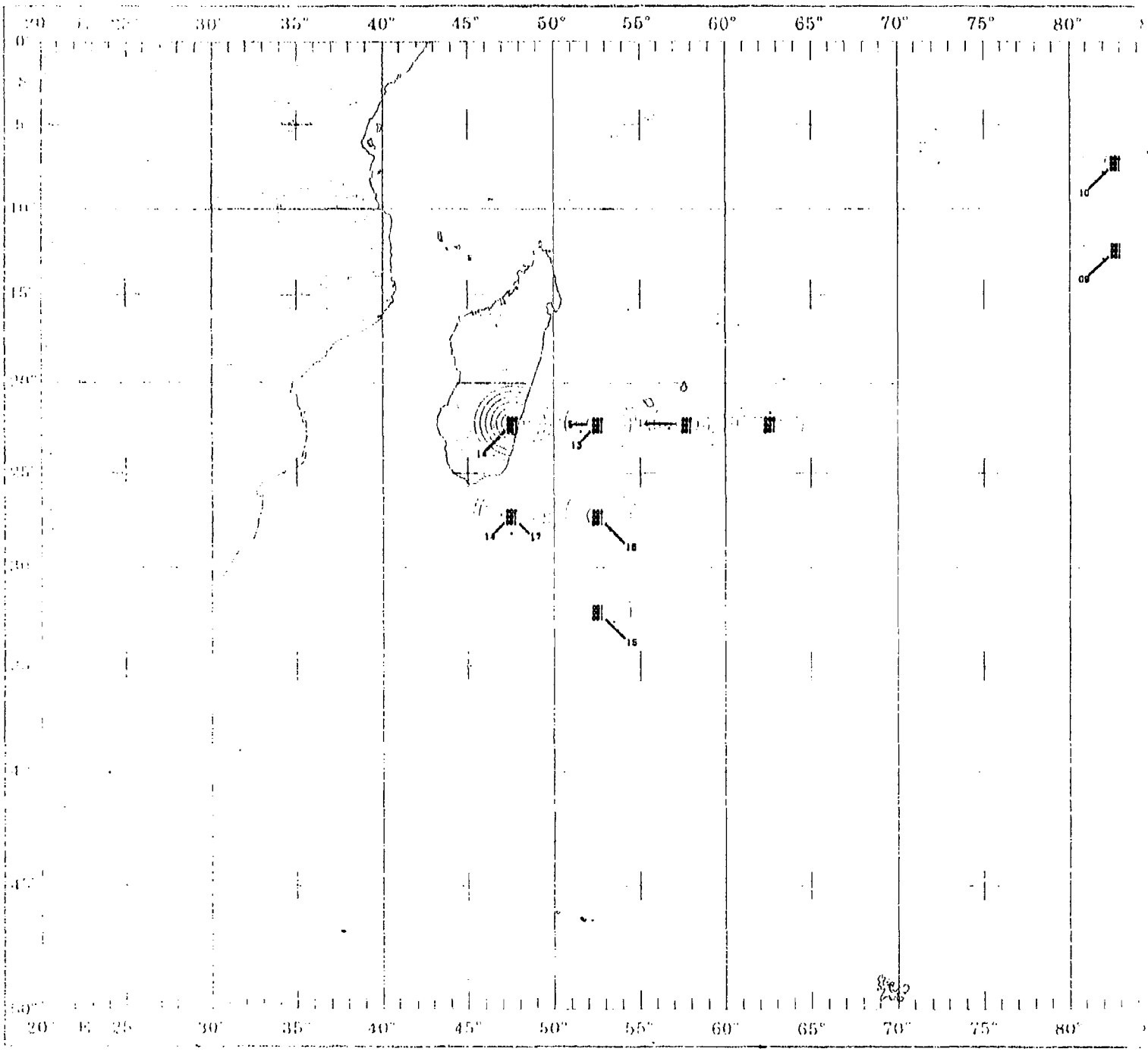
JUNE


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
(frequency)
100%
80%
60%
40%
20%
277
050
026
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

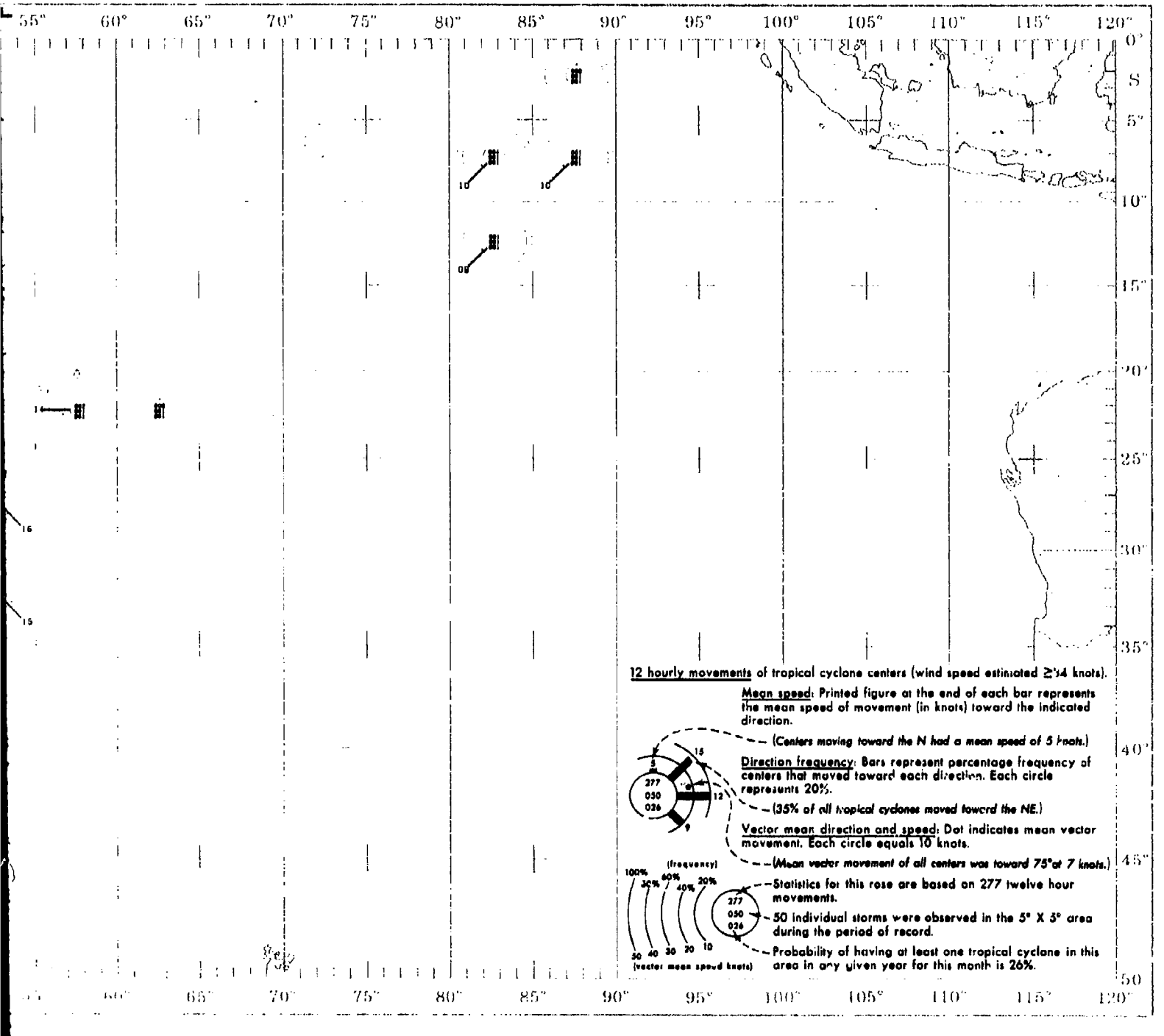
TROPICAL CYCLONE



TROPICAL CYCLONE



JUNE


55° 60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0°
5° S
10°
15°
20°
25°
30°
35°
40°
45°
50°
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
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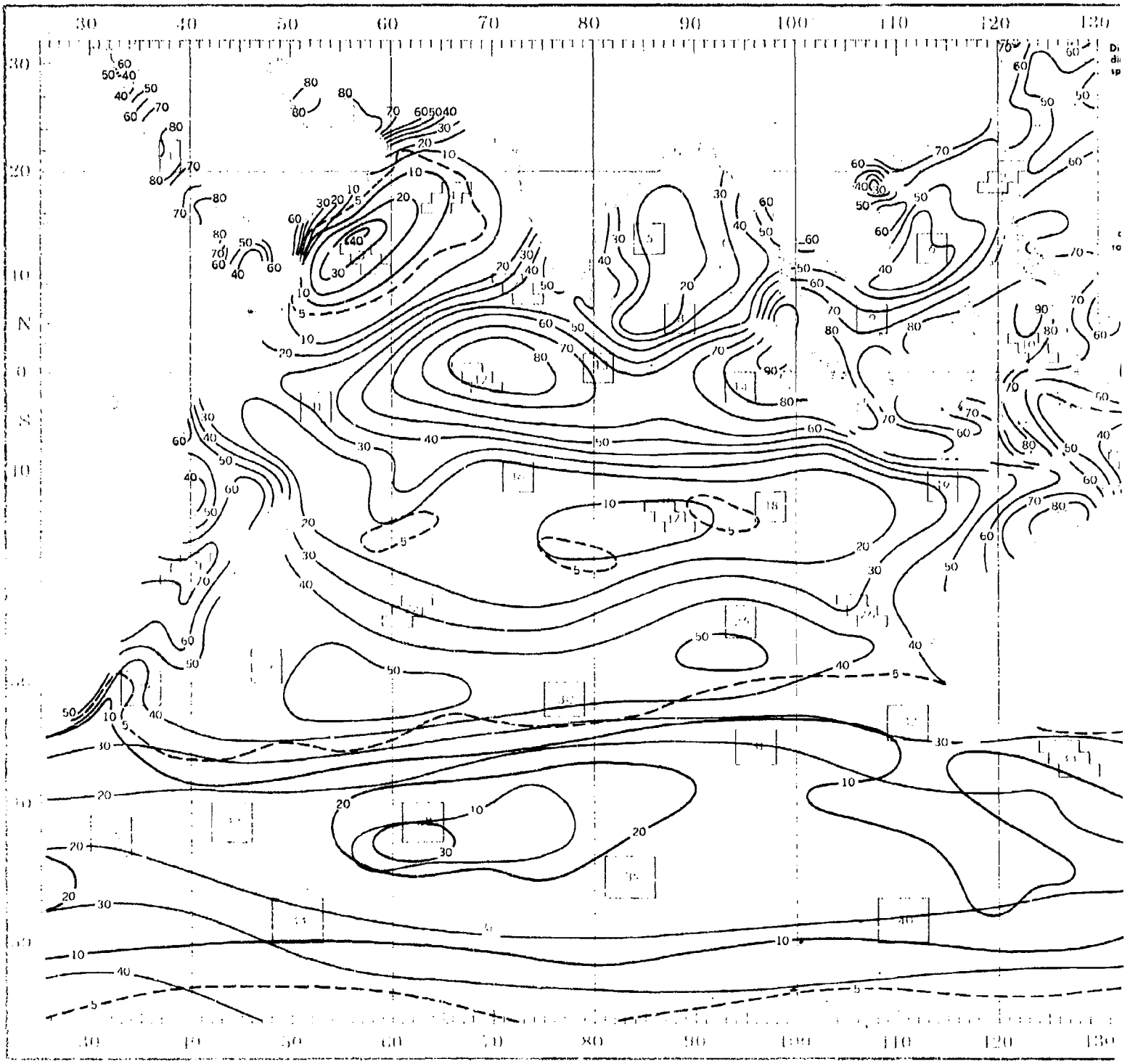
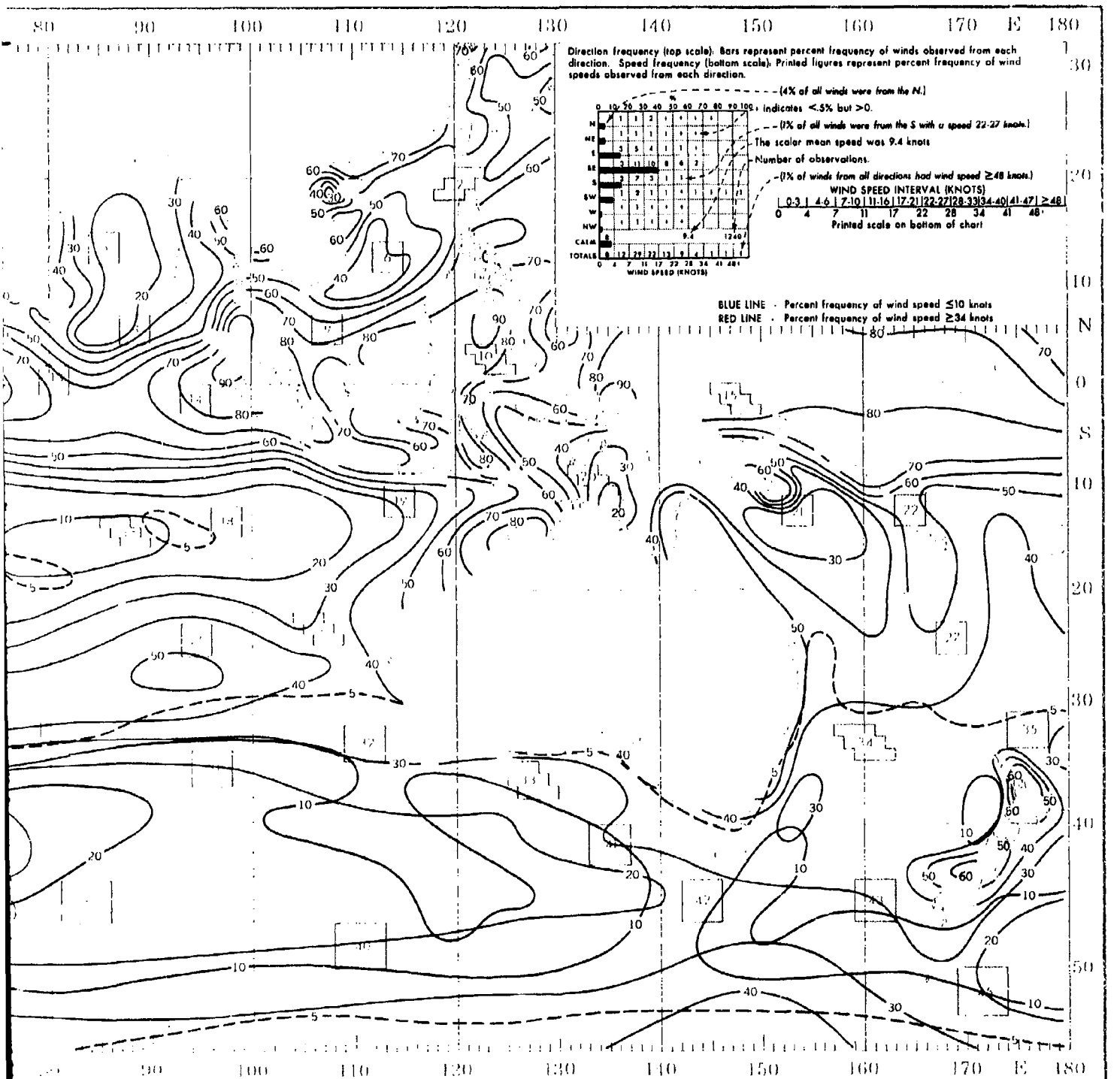
(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)
277
050
026
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

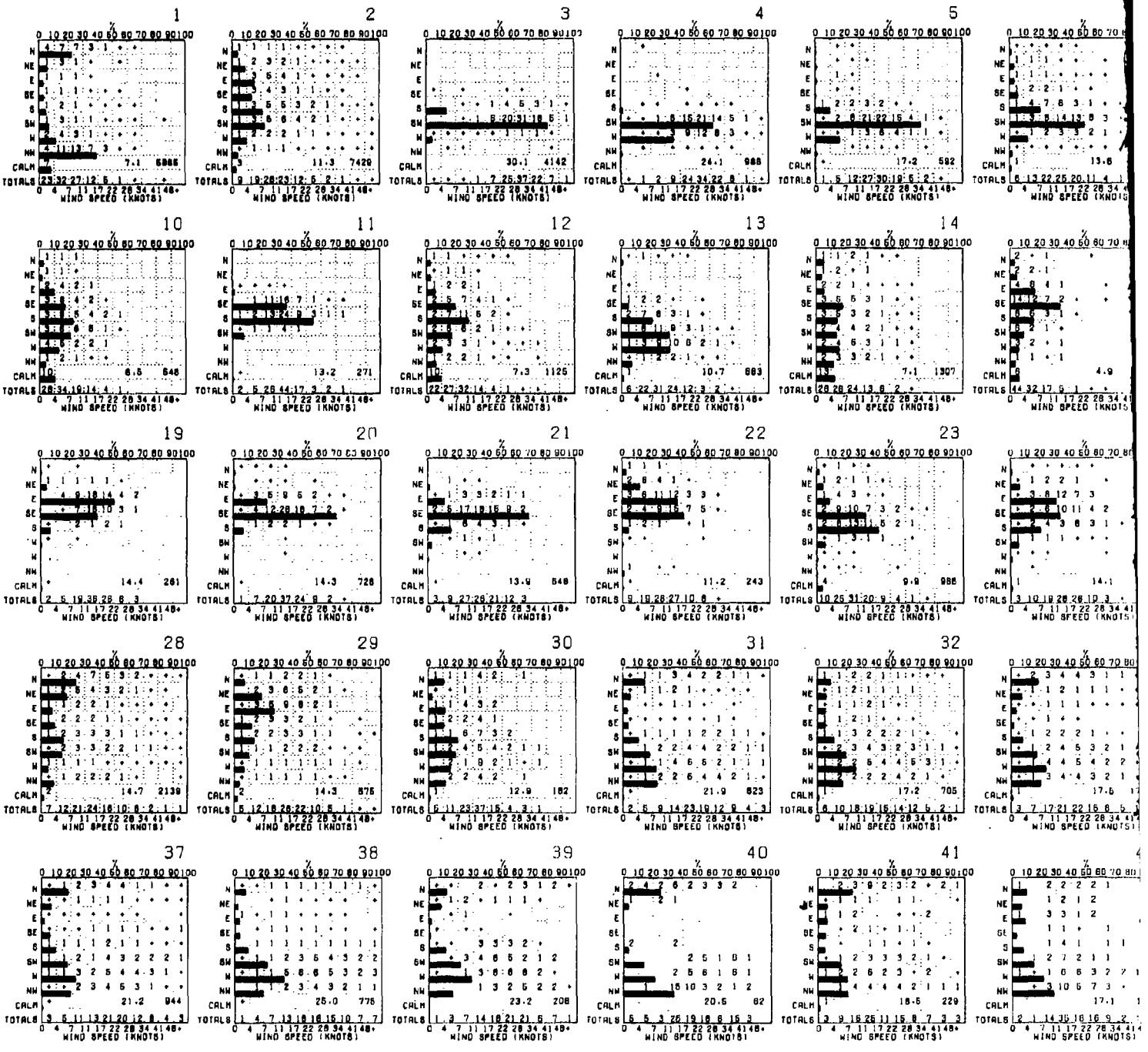
JULY



SURFACE WINDS

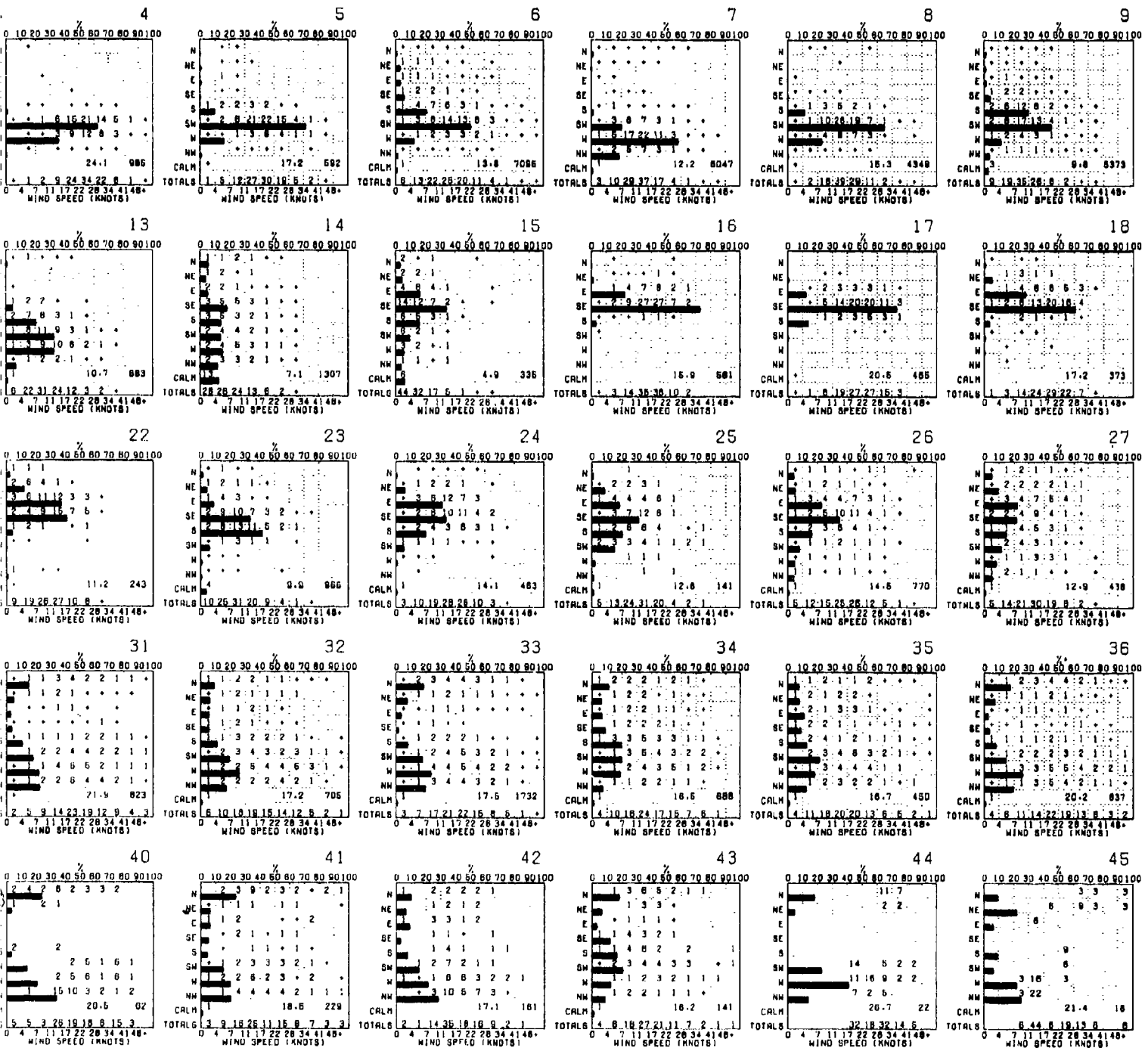


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

JULY



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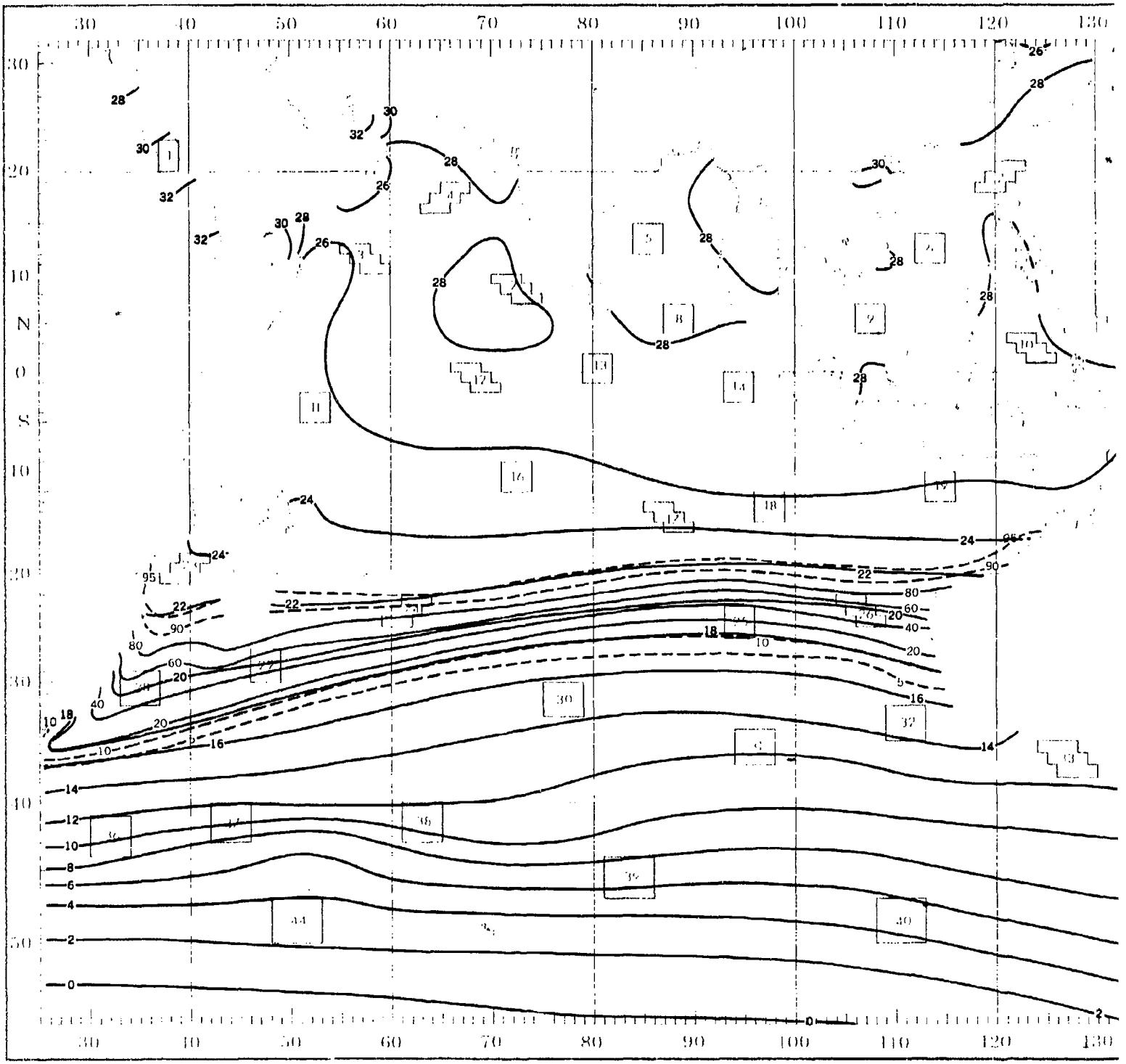
JULY


30
40
50
60
70
80
90
100
110
120
130
30
20
10
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0
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10
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30
40
50
28
30
32
26
24
22
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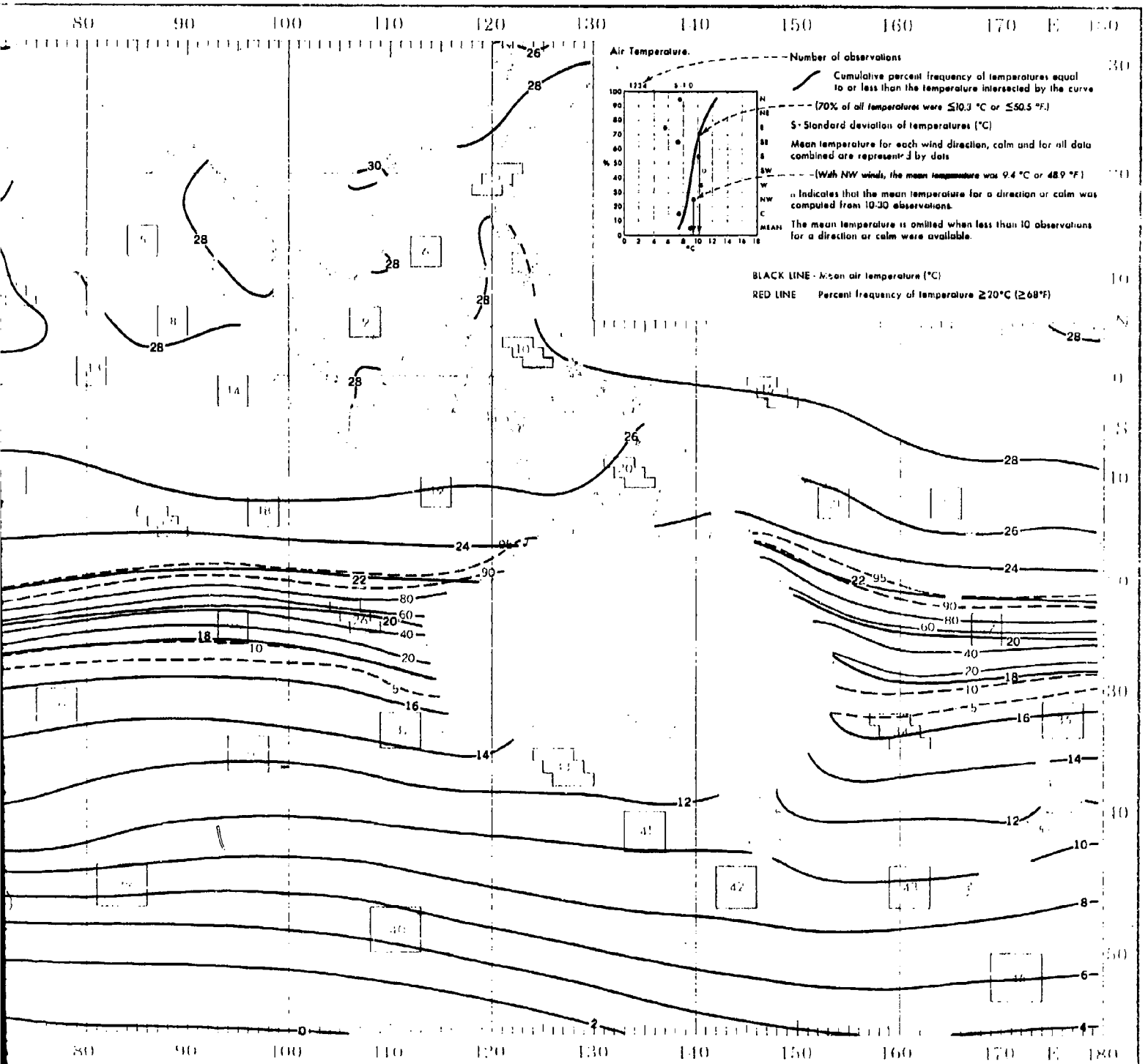
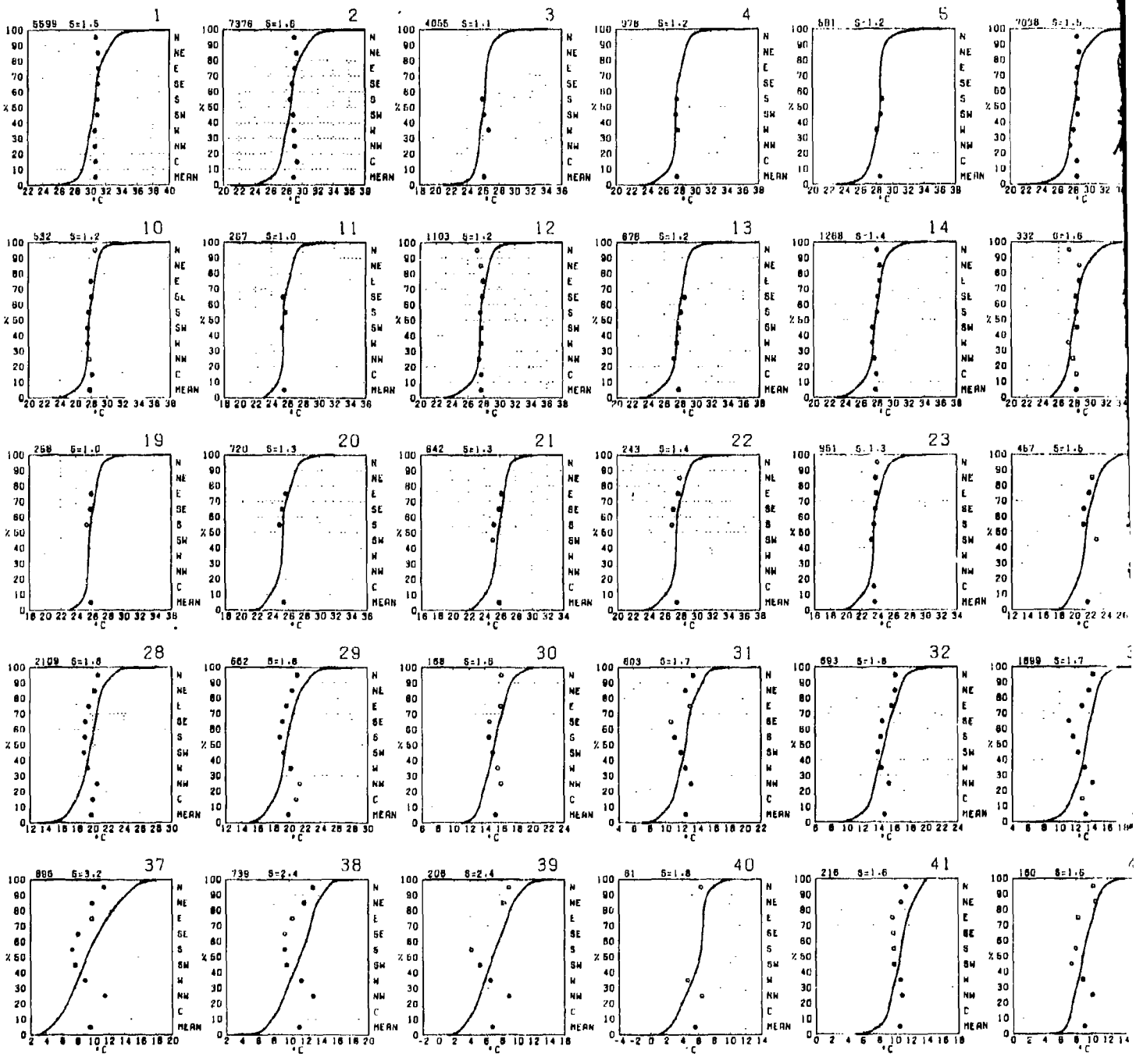
90
80
60
40
20
18
16
14
12
10
8
6
4
2
0

SURFACE AIR TEMPERATURE

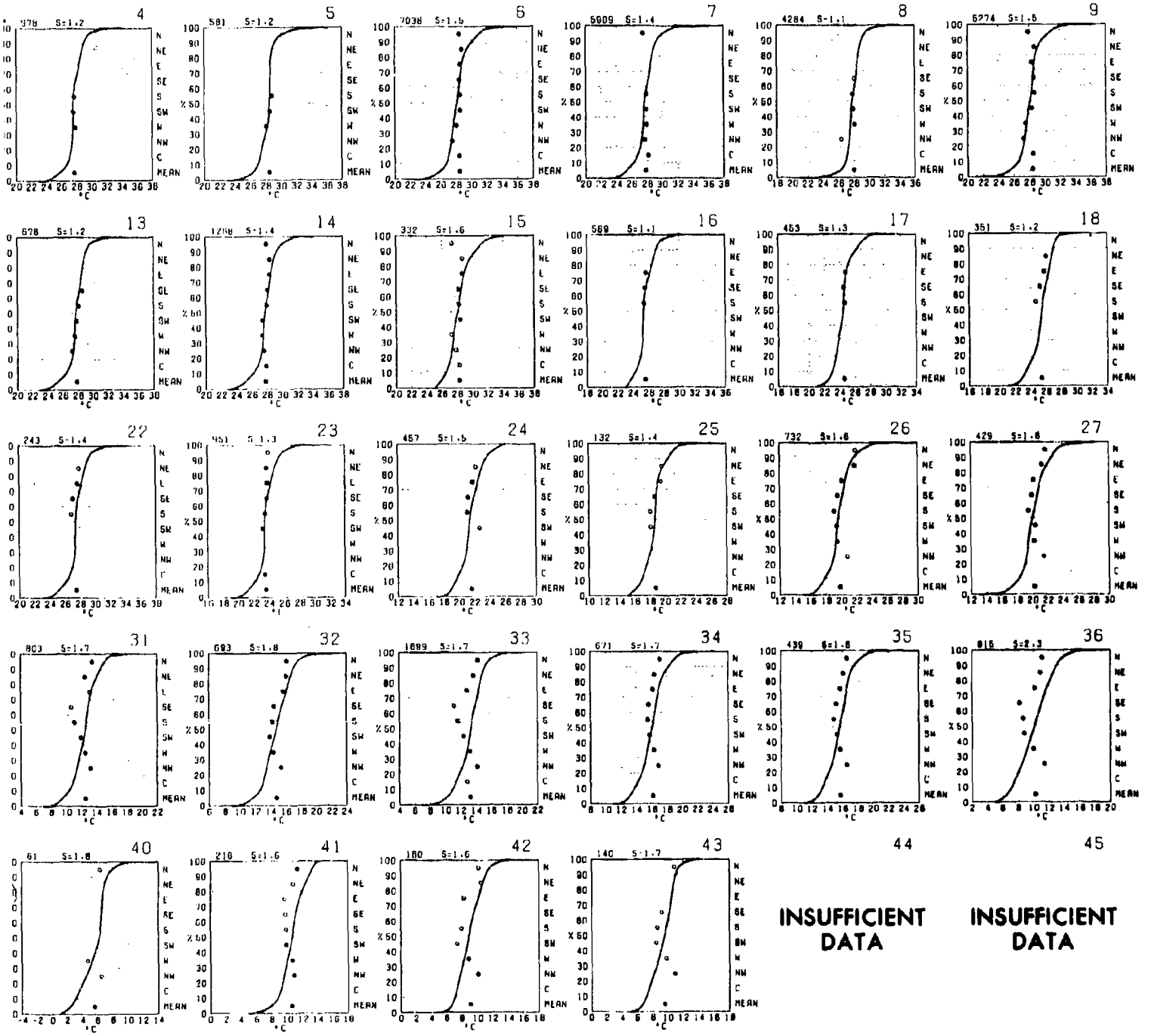


SURFACE AIR TEMPERATURE



Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively ac

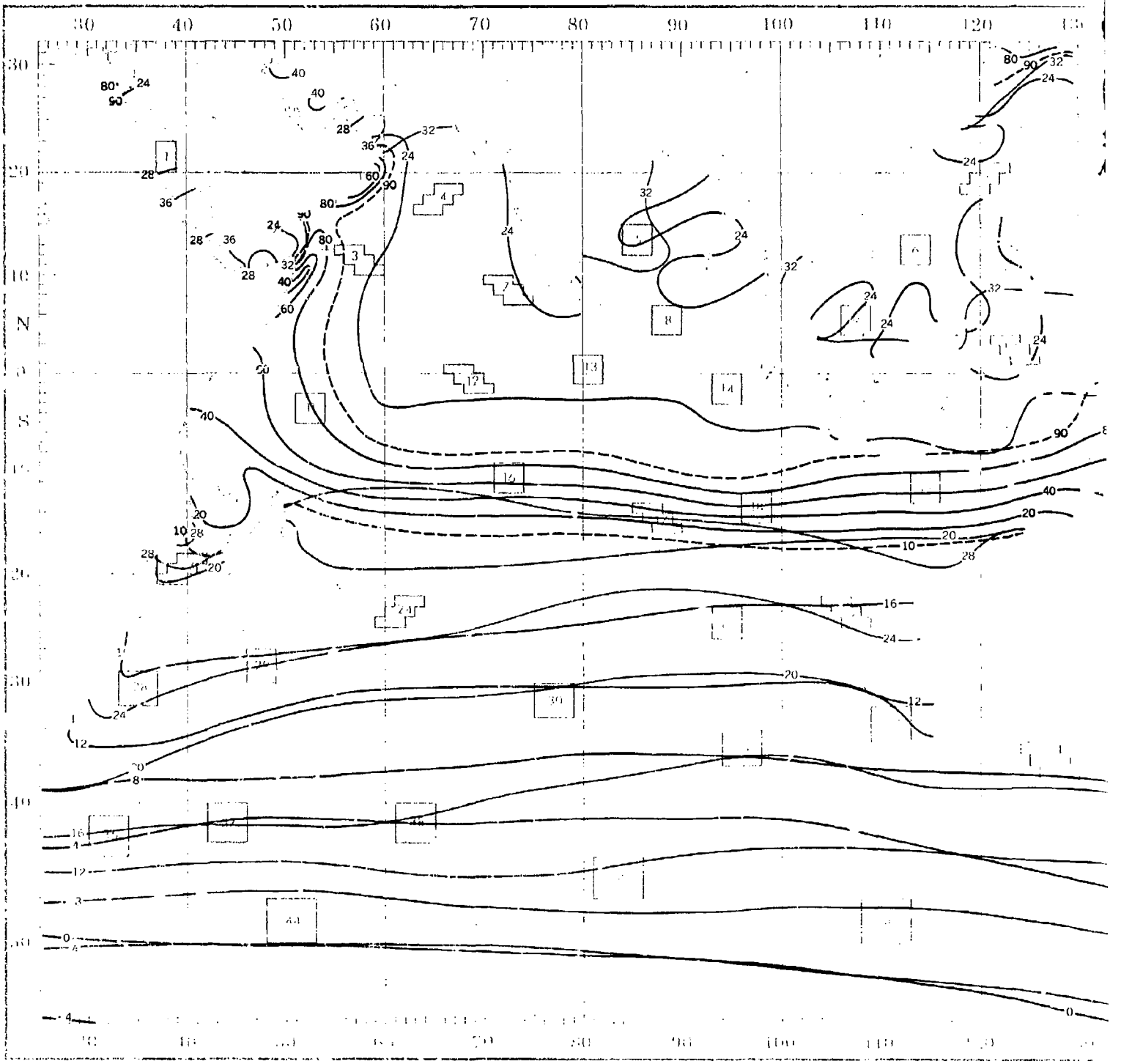
JULY



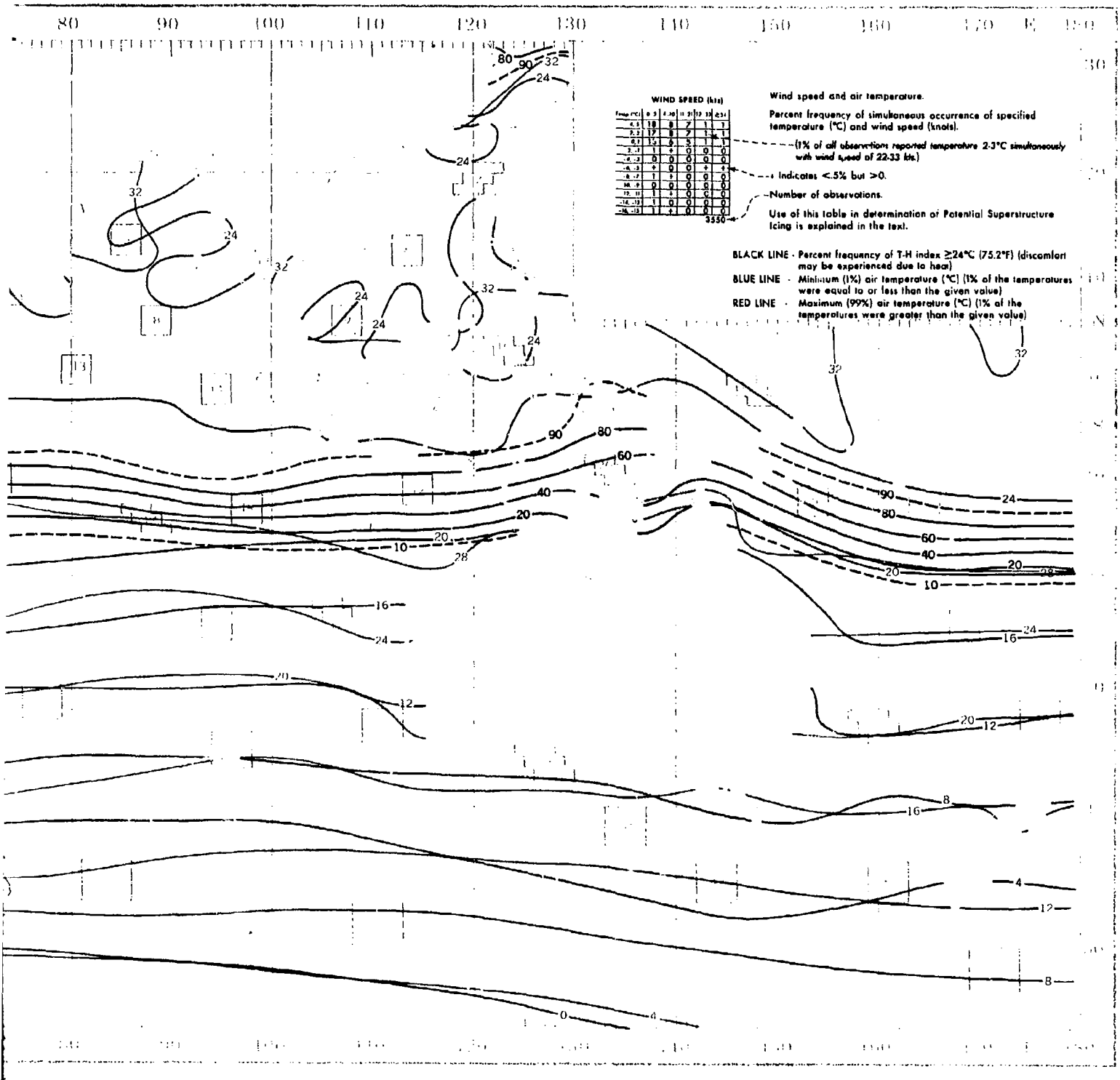
ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

JULY

TEMPERATURE E



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.39	0	+	+	0	0
36.37	+	+	+	0	0
34.36	1	2	1	+	0
32.33	6	13	6	+	0
30.31	12	32	8	1	+
28.28	4	12	3	+	0
26.27	+	+	+	0	0
24.25	0	+	+	0	0
22.23	+	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0

5619

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.35	+	+	+	0	0
32.33	1	3	2	+	0
30.31	3	13	8	1	+
28.28	5	25	19	4	+
26.27	1	6	5	2	+
24.25	+	+	1	+	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7382

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	+	0
30.31	+	0	+	1	+
28.28	0	+	1	7	2
26.27	0	+	6	42	20
24.25	+	+	2	13	6
22.23	0	0	+	+	+
20.21	0	0	+	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4055

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	+	0
30.31	0	+	2	3	0
28.28	0	1	17	28	4
26.27	+	1	14	24	5
24.25	0	0	+	1	+
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

978

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	0	+	0	0
32.33	+	+	1	1	0
30.31	0	2	8	2	+
28.29	1	12	42	18	+
26.27	0	2	5	4	1
24.25	0	+	1	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

561

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
36.37	0	+	+
34.35	0	+	+
32.33	+	2	1
30.31	1	6	8
28.29	3	19	27
26.27	1	6	8
24.25	+	1	1
22.23	0	+	+
20.21	0	0	0
18.19	0	0	0
16.17	0	0	0

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	2	2	+	0	0
28.29	19	35	8	+	0
26.27	7	17	6	1	0
24.25	+	1	2	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

533

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	1	0	0
28.28	0	1	2	1	0
26.27	2	17	30	3	+
24.25	+	11	28	2	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

267

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	1	3	1	0	0
28.28	11	35	9	+	0
26.27	9	20	6	+	+
24.25	1	2	1	+	0
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1107

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	0	3	1	0	0
28.28	5	36	21	1	0
26.27	2	13	12	3	+
24.25	0	1	1	1	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

879

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	3	5	1	0	0
28.29	15	30	8	1	0
26.27	8	13	8	1	0
24.25	1	2	2	1	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1268

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
32.33	2	3	0
30.31	9	4	0
28.29	19	26	3
26.27	14	15	3
24.25	+	1	0
22.23	0	0	0
20.21	0	0	0
18.19	0	0	0
16.17	0	0	0
14.15	0	0	0
12.13	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	0	0	0
28.28	1	2	2	0	0
26.27	1	12	42	4	0
24.25	0	8	19	7	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

258

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	1	0	0
28.28	0	1	3	1	0
26.27	+	10	26	4	0
24.25	1	13	29	6	+
22.23	0	2	4	1	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

720

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	+	0
28.28	0	3	4	1	0
26.27	+	21	28	8	0
24.25	2	11	13	5	0
22.23	1	1	2	1	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

642

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	2	2	+	+	0
28.28	3	20	17	2	0
26.27	5	22	16	4	0
24.25	0	+	3	2	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

244

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	+	+	+	0	0
26.27	+	4	2	+	0
24.25	5	26	13	1	0
22.23	5	22	12	3	+
20.21	+	2	1	1	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

969

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
26.27	0	1	+
24.25	1	5	3
22.23	1	13	22
20.21	1	10	24
18.19	0	1	5
16.17	0	0	0
14.15	0	0	0
12.13	0	0	0
10.11	0	0	0
8.8	0	0	0
8.7	0	0	0

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	+	0	0	0
24.25	+	+	1	+	+
22.23	1	5	6	3	+
20.21	2	15	18	6	1
18.19	3	11	13	5	2
16.17	+	3	2	2	1
14.15	0	+	+	+	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
8.7	0	0	0	0	0

2121

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	+	+	0
24.25	0	1	1	+	0
22.23	2	5	6	2	+
20.21	2	9	21	5	1
18.19	1	12	18	5	1
16.17	+	3	2	1	0
14.15	0	0	+	+	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
8.7	0	0	0	0	0

662

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	0	1	0	0
18.19	0	2	4	1	0
16.17	3	11	25	1	0
14.15	2	15	17	4	0
12.13	0	7	4	2	1
10.11	0	0	0	0	0
8.8	0	0	0	0	0
8.7	0	0	0	0	0
4.6	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

169

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	0	+	0
16.17	+	+	1	1	1
14.15	+	4	10	8	4
12.13	1	6	18	14	5
10.11	1	4	7	8	3
8.8	+	1	1	1	1
8.7	0	0	0	0	0
4.6	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

803

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	+	0	0
18.19	+	2	2	1	+
16.17	2	9	10	8	2
14.15	1	11	14	9	4
12.13	2	4	6	6	2
10.11	0	+	1	2	+
8.8	0	0	0	0	0
8.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

694

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
18.19	0	+	+
16.17	+	2	4
14.15	+	8	17
12.13	2	11	17
10.11	+	3	5
8.8	+	+	+
8.7	0	0	0
4.6	0	0	0
2.3	0	0	0
0.1	0	0	0
-2.-1	0	0	0

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	+	0
16.17	+	+	1	1	+
14.15	0	1	3	4	2
12.13	+	1	5	5	1
10.11	1	3	8	7	2
8.8	+	5	7	7	3
8.7	1	4	8	5	2
4.6	+	2	3	2	1
2.3	+	+	+	+	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

895

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.17	0	+	+	+	+
14.15	+	1	6	8	5
12.13	+	3	10	8	5
10.11	1	5	8	7	6
8.8	0	1	5	7	4
8.7	0	1	2	3	2
4.6	0	0	0	+	+
2.3	0	0	0	0	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

739

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	+	0	1
10.11	0	1	2	5	3
8.8	+	3	5	11	6
8.7	+	2	11	15	1
4.5	+	3	11	10	1
2.3	0	+	2	2	+
0.1	0	0	0	0	+
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

206

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.8	0	2	10	2	2
8.7	3	5	20	15	2
4.5	2	2	8	7	8
2.3	0	0	7	2	5
0.1	0	0	0	0	2
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

61

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	+	1	1	+
12.13	+	6	12	8	5
10.11	1	9	17	9	4
8.8	1	7	6	6	3
8.7	0	1	1	2	0
4.5	0	+	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-8.-5	0	0	0	0	0

216

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
12.13	0	2	3
10.11	1	3	15
8.8	1	6	26
8.7	1	5	10
4.6	0	0	1
2.3	0	0	0
0.1	0	0	0
-2.-1	0	0	0
-4.-3	0	0	0
-8.-5	0	0	0
-8.-7	0	0	0

Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively a

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4

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	+	0
30.31	0	+	2	3	0
28.29	0	1	17	28	4
26.27	+	1	14	24	5
24.25	0	0	+	1	+
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

978

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	0	+	0	0
32.33	+	+	1	1	0
30.31	0	2	8	2	+
28.29	1	12	42	18	+
26.27	0	2	5	4	1
24.25	0	+	1	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

581

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	-	+	0	0
34.35	0	+	+	+	0
32.33	+	2	1	+	0
30.31	1	6	8	2	+
28.29	3	19	27	9	+
26.27	1	8	8	3	+
24.25	+	1	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7043

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	+	0	0
32.33	0	+	+	+	0
30.31	+	4	6	+	+
28.29	1	21	29	2	+
26.27	1	12	17	2	+
24.25	+	1	2	1	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5909

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	+	0
30.31	+	1	5	1	+
28.29	+	13	46	9	+
26.27	+	4	13	3	+
24.25	+	+	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4284

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	+	2	1	+	0
30.31	1	8	5	+	0
28.29	6	34	20	1	+
26.27	2	10	7	1	+
24.25	+	1	1	+	0
22.23	0	+	+	+	0
20.21	0	+	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5277

13

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	0	3	1	0	0
28.29	5	36	21	1	0
26.27	2	13	12	3	+
24.25	0	1	1	1	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

678

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	3	5	1	0	0
28.29	15	30	8	1	0
26.27	8	13	8	1	0
24.25	1	2	2	1	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1268

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	2	3	0	0	0
30.31	9	4	0	0	0
28.29	19	26	3	+	0
26.27	14	15	3	+	0
24.25	+	1	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

336

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	+	0	0
28.29	0	1	4	+	0
26.27	0	9	34	7	0
24.25	+	7	31	5	0
22.23	0	+	1	1	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

569

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	0	+	0
28.29	+	+	1	+	0
26.27	0	3	13	8	1
24.25	0	4	23	25	1
22.23	0	2	9	9	1
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

453

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	1	3	1	0
26.27	1	10	26	13	+
24.25	+	5	23	15	0
22.23	0	1	2	3	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

351

22

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	2	2	+	+	0
28.29	3	20	17	2	0
26.27	5	22	16	4	0
24.25	0	+	3	2	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

244

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	+	+	0	0
26.27	+	4	2	+	0
24.25	5	26	13	1	0
22.23	5	22	12	3	+
20.21	+	2	1	1	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

959

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	1	+	0	0
24.25	1	5	3	+	0
22.23	1	13	22	5	0
20.21	1	10	24	6	0
18.18	0	1	5	2	+
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

457

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	1	2	0	0
20.21	3	14	8	1	0
18.19	2	17	34	2	1
16.17	0	5	6	2	1
14.15	0	2	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

132

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	+	0	0	0
24.25	+	1	+	1	+
22.23	1	6	5	1	0
20.21	2	11	19	7	0
18.18	2	8	23	7	1
16.17	+	1	3	1	0
14.15	0	+	+	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

733

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	+	+	0	0
24.25	+	2	+	+	0
22.23	1	8	9	1	0
20.21	2	13	19	6	+
18.18	2	10	19	3	0
16.17	0	2	1	+	0
14.15	+	+	0	0	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

429

31

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	0	+	0
16.17	+	+	1	1	1
14.16	+	4	10	8	4
12.13	1	6	18	14	6
10.11	1	4	7	8	3
8.9	+	1	1	1	1
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

803

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	+	0	0
18.18	+	2	2	1	+
16.17	2	9	10	8	2
14.15	1	11	14	9	4
12.13	2	4	6	6	2
10.11	0	+	1	2	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

694

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	+	+	0
16.17	+	2	4	2	+
14.16	+	8	17	10	2
12.13	2	11	17	8	3
10.11	+	3	5	2	1
8.9	+	+	+	+	1
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

1701

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	1	1	1	+
18.19	1	3	7	4	1
16.17	1	12	20	10	2
14.15	2	11	11	6	1
12.13	+	1	2	1	1
10.11	0	0	0	+	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

672

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	+	0	0
18.18	1	4	5	2	1
16.17	2	14	18	6	3
14.15	1	9	14	6	4
12.13	+	2	2	1	1
10.11	0	+	+	+	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

439

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.17	0	+	1	+	+
16.16	0	1	3	2	1
14.15	+	3	9	7	2
12.13	1	6	12	11	2
10.11	2	5	8	7	3
8.9	2	5	8	7	3
6.7	+	3	3	5	2
4.5	+	2	+	+	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

818

40

WIND SPEED (KTS)

(°C)	0-3	4-10	11-21	22-33	≥ 34
8.9	0	2	10	2	2
6.7	3	5	20	16	2
4.5	2	2	8	7	8
2.3	0	0	7	2	5
0.1	0	0	0	0	2
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

61

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	+	1	1	+
12.13	+	6	12	8	5
10.11	1	9	17	9	4
8.9	1	7	6	5	3
6.7	0	1	1	2	0
4.5	0	+	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

216

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	2	3	3	1
10.11	1	3	15	8	1
8.9	1	6	26	13	1
6.7	1	5	10	1	1
4.5	0	0	1	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

160

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	2	6	2	0
10.11	1	9	25	7	1
8.9	1	12	14	4	2
6.7	1	3	3	5	1
4.5	0	0	0	0	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

140

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
6.7	0	0	0	9	0
4.5	0	0	14	23	9
2.3	0	0	14	18	9
0.1	0	0	5	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0
-14.-13	0	0	0	0	0

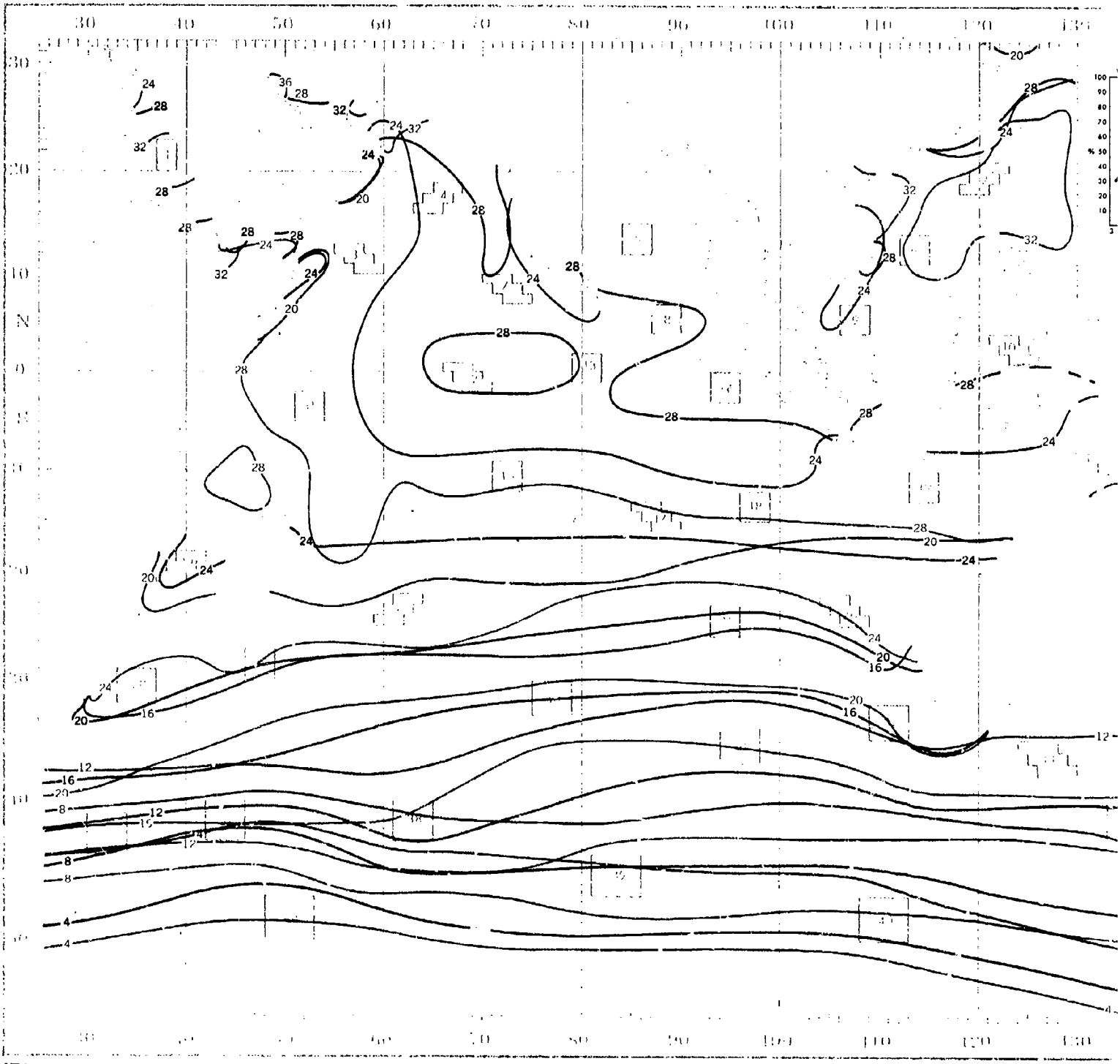
22

45

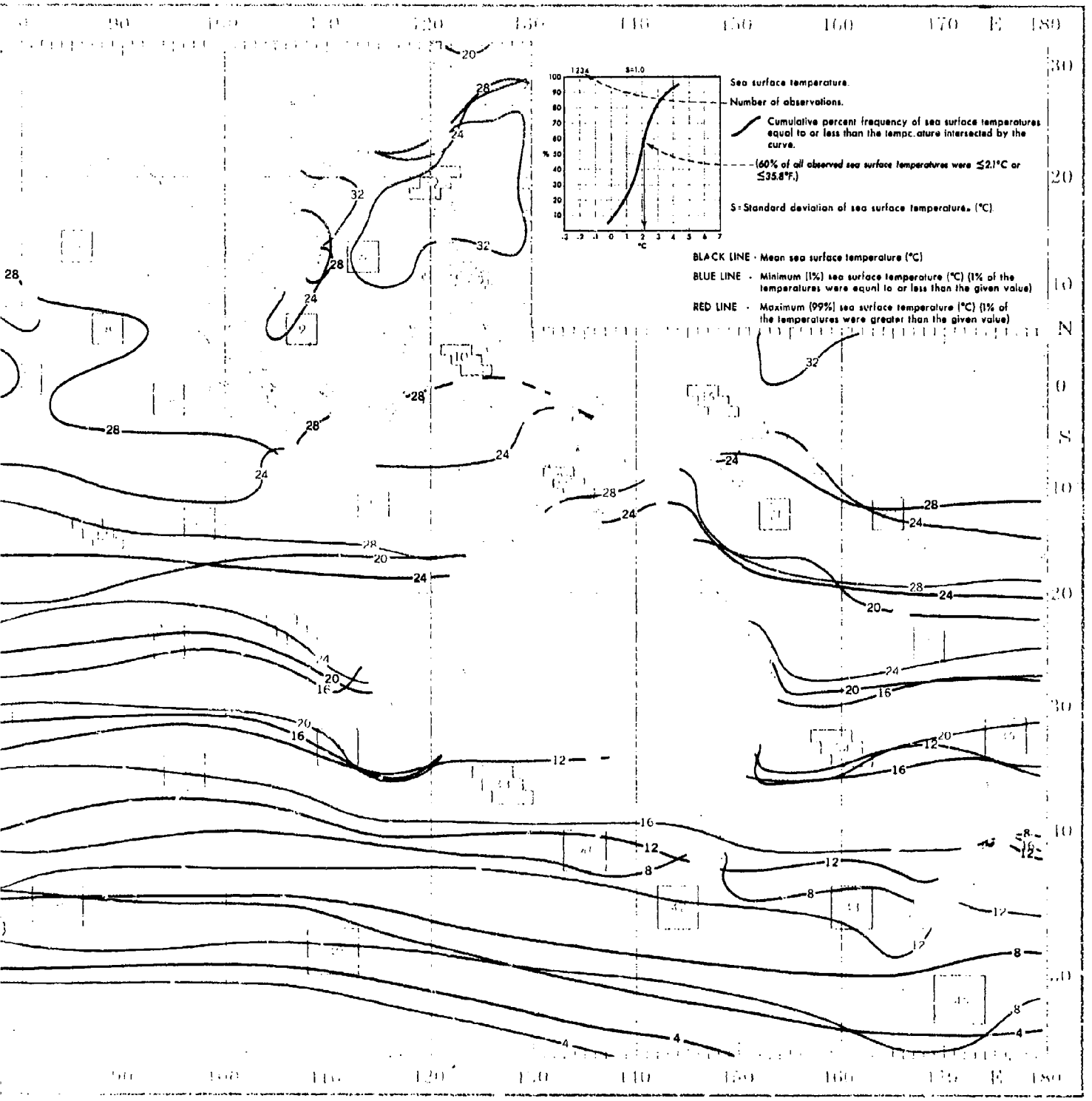
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

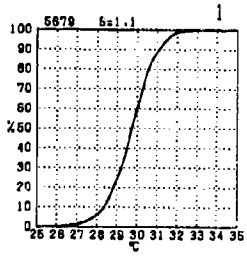
JULY SEA

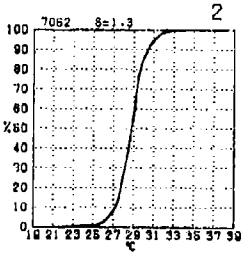


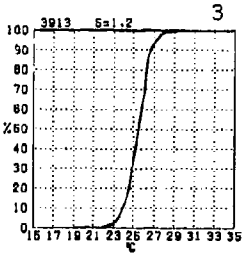
SEA SURFACE TEMPERATURE

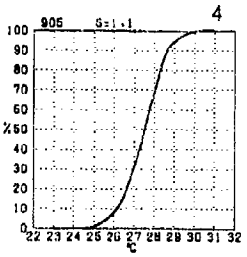


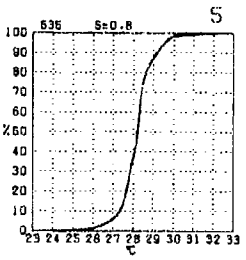
SEA SURFACE TEMPERATURE

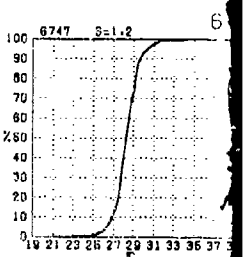


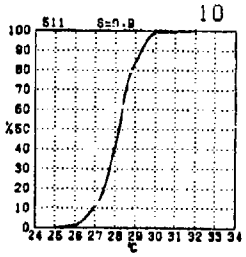


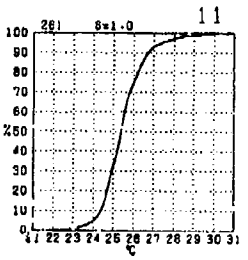


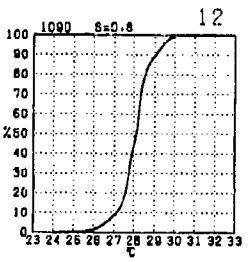


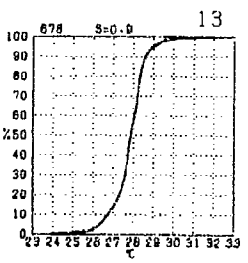


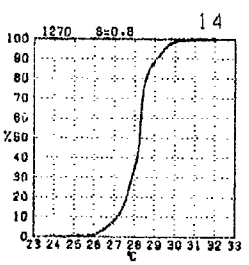


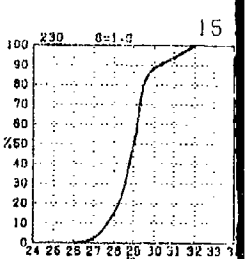


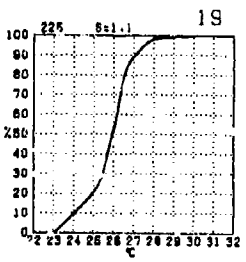


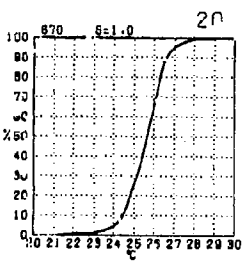


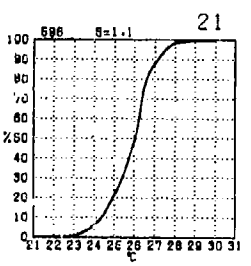


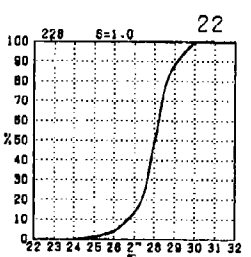


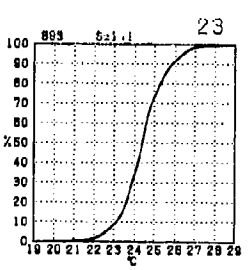


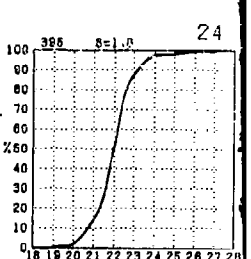


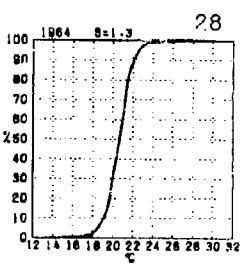


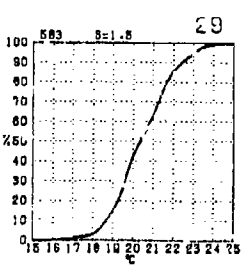


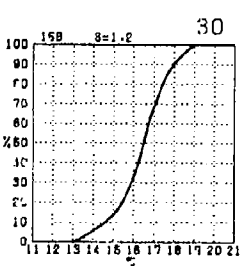


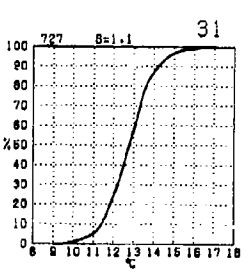


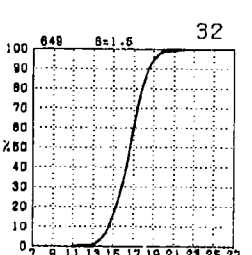


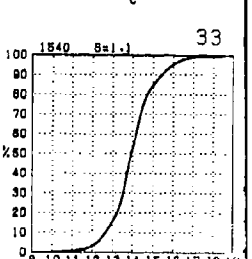


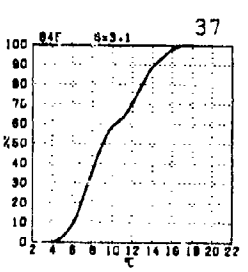


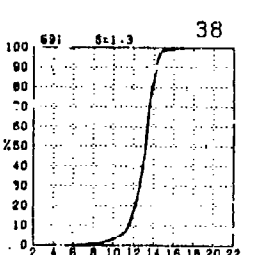


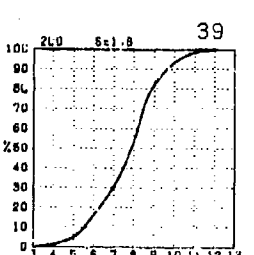


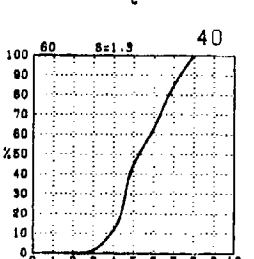


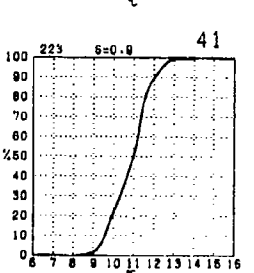


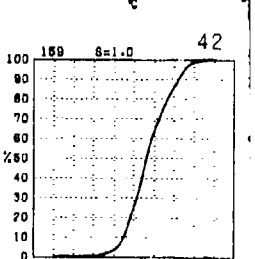






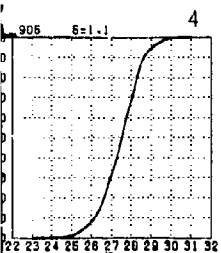


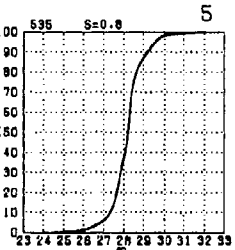


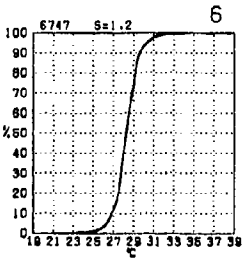


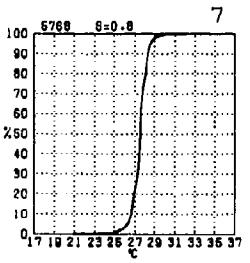
Graphs represent the objective compilation of available data for specified areas without re
The Isopleth analyses (opposite page) are based on all available data subjectively adjuste

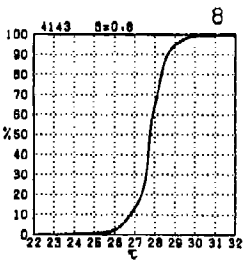
JULY

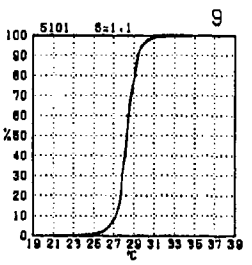


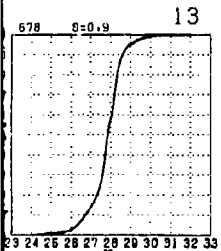


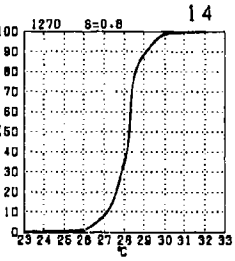


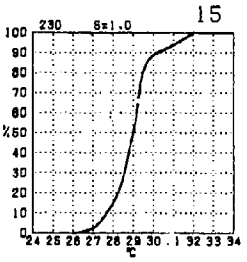


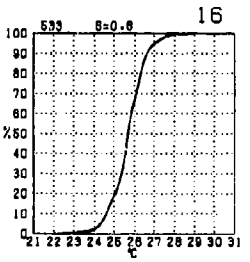


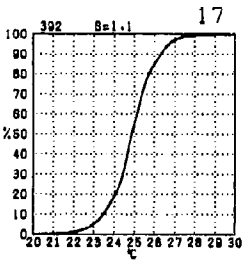


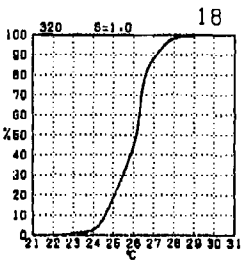


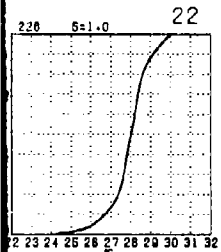


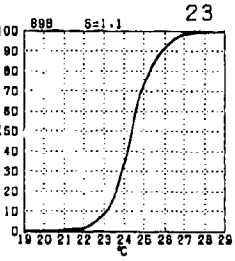


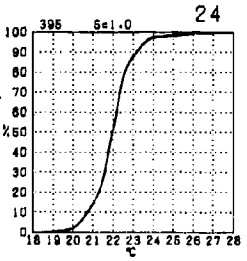


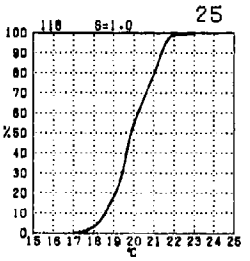


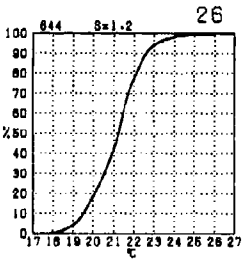


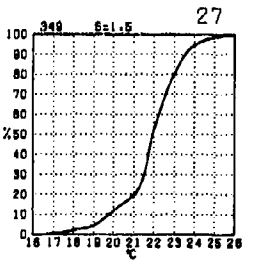


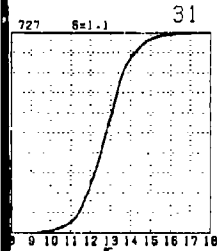


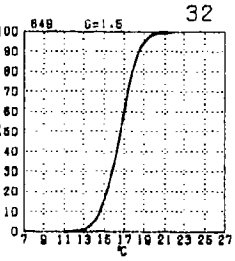


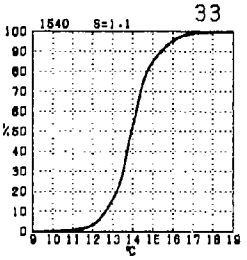


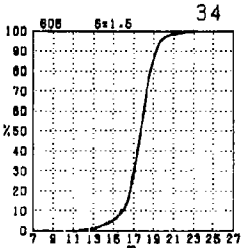


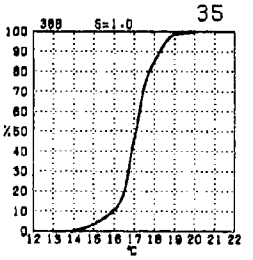


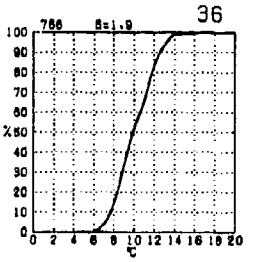


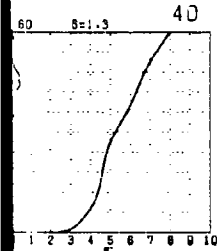


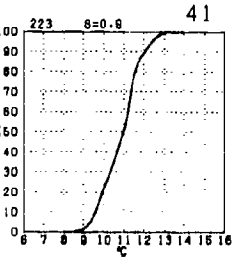


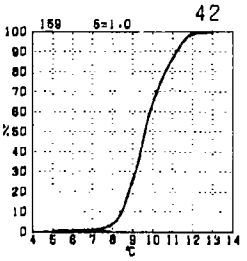


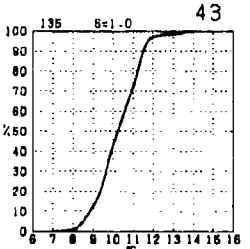












44

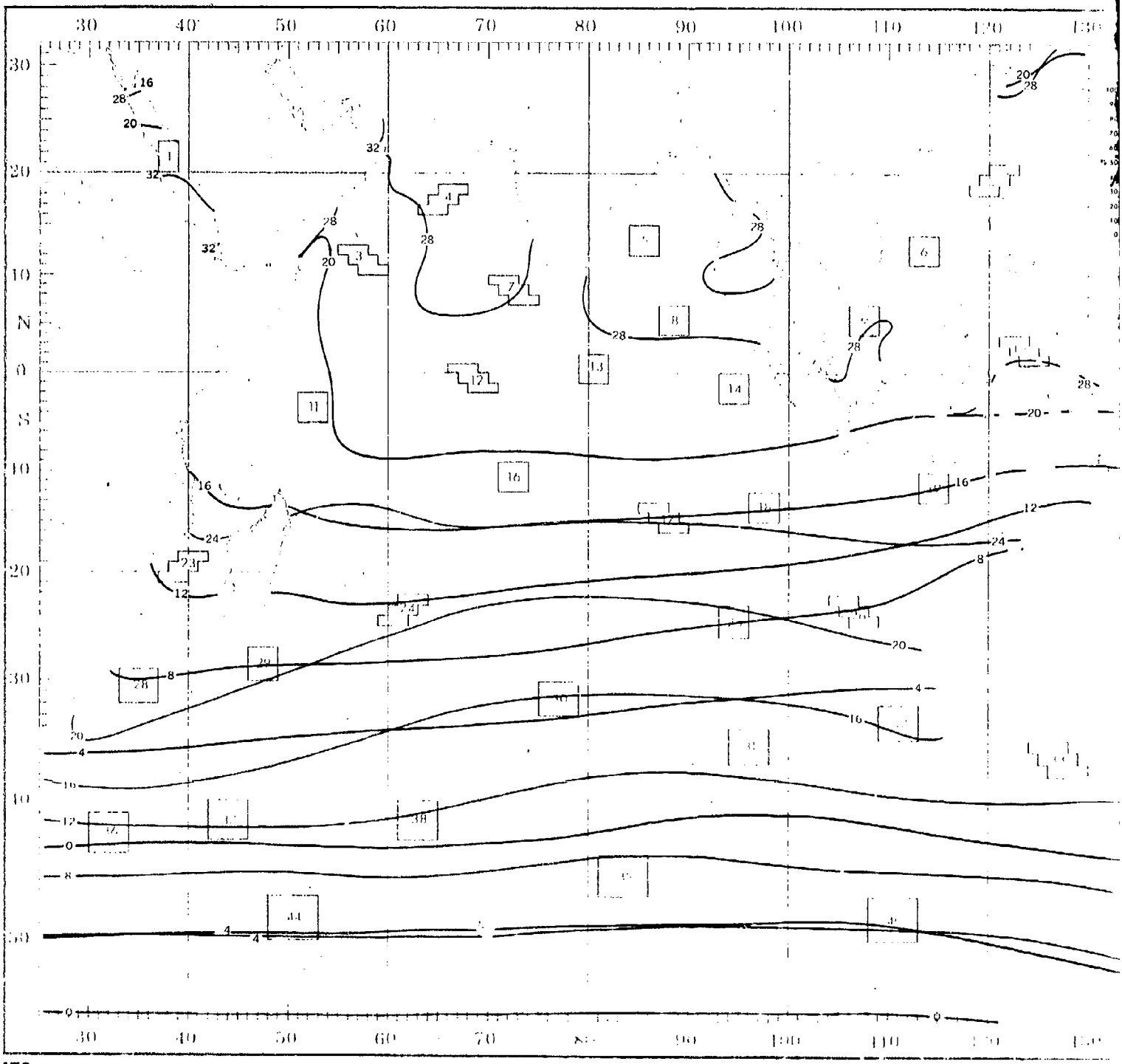
INSUFFICIENT DATA

45

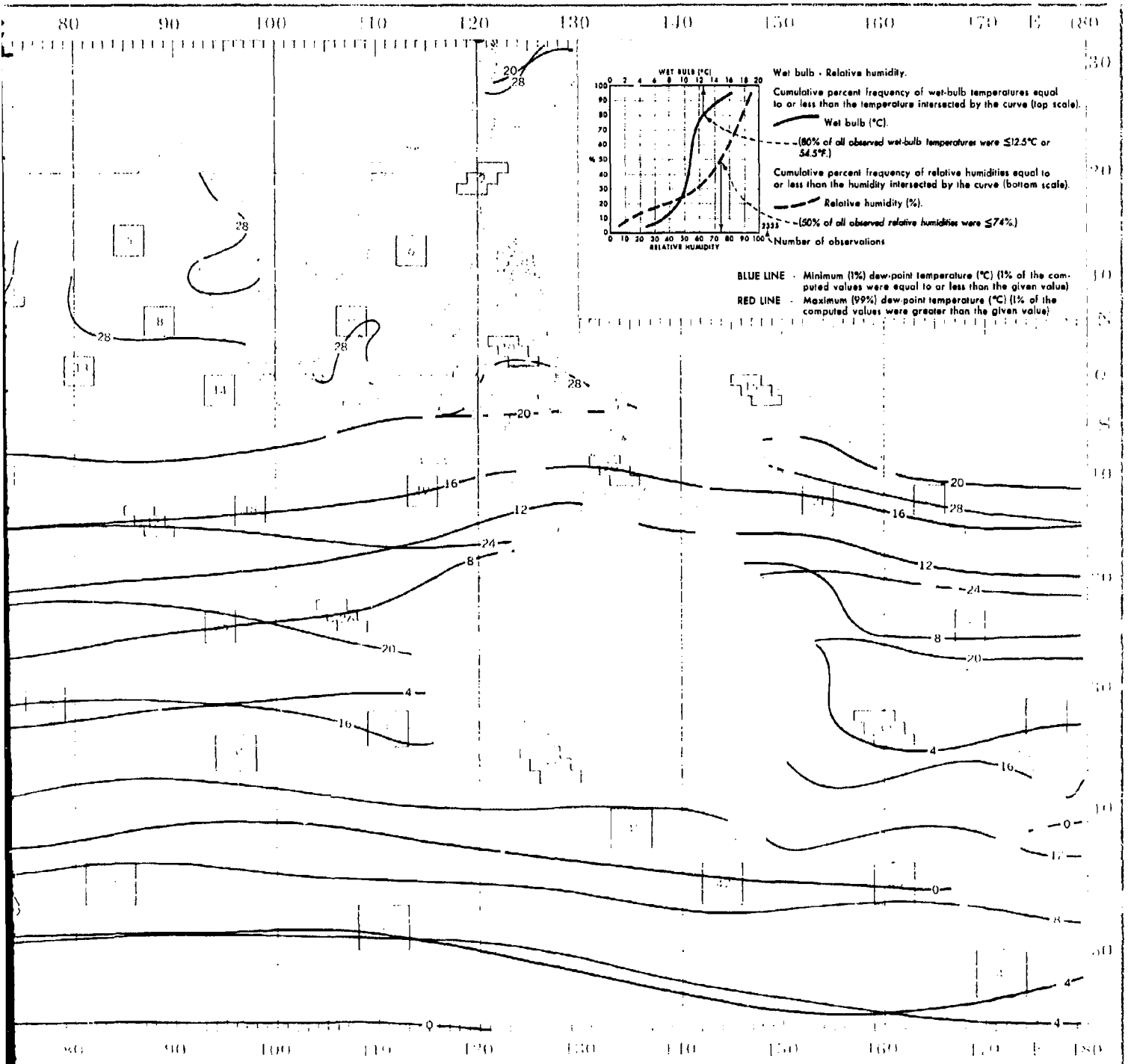
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

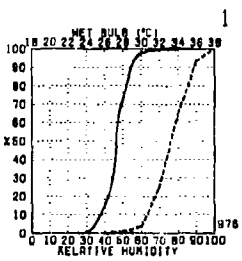
JULY

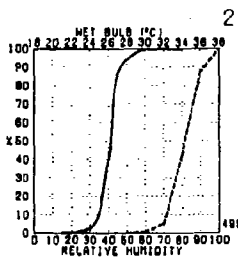


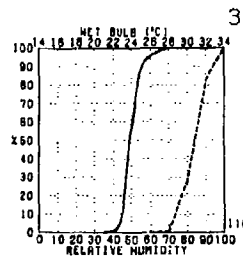
HUMIDITY

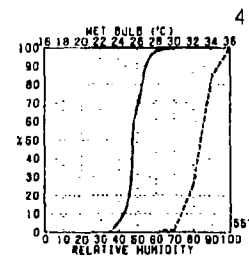

WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%).
(50% of all observed relative humidities were ≤74%.)
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

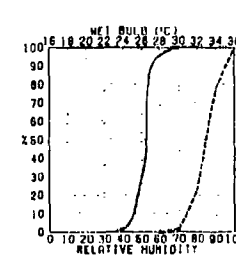
WET BULB AND RELATIVE HUMIDITY

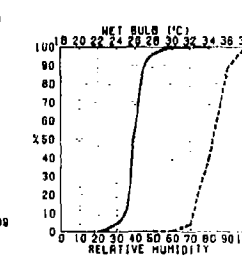


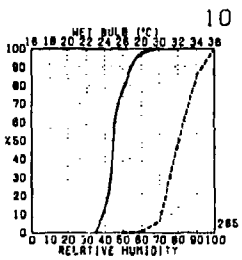


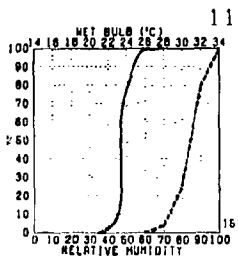


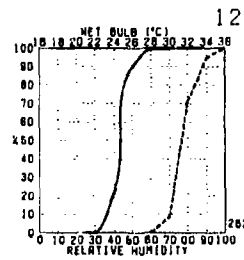


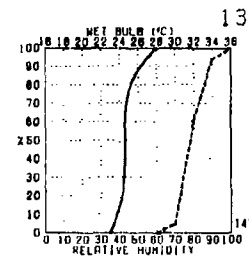


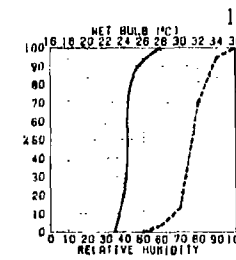


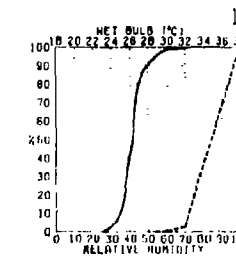


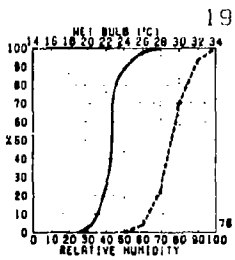


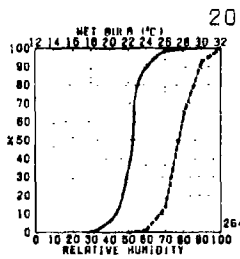


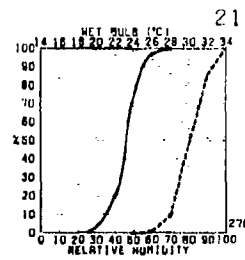


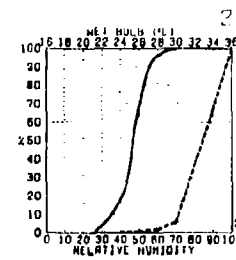


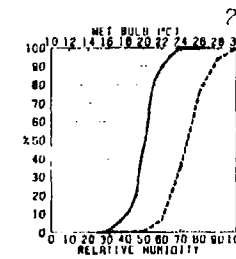


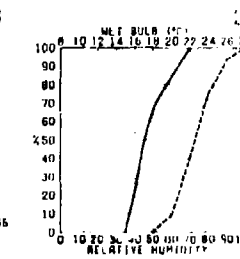


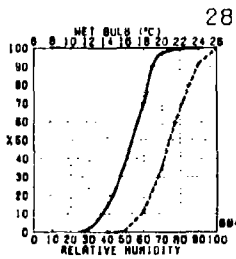


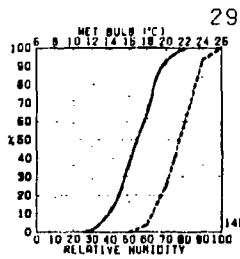


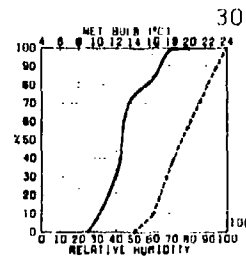


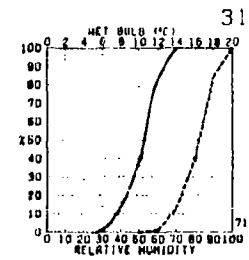


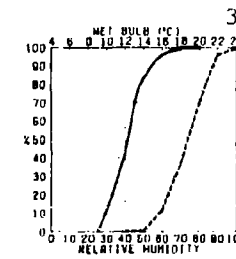


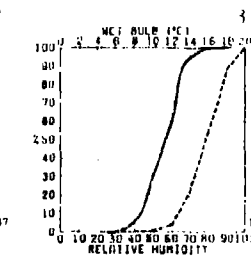






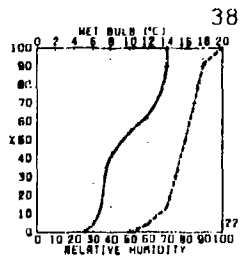






37

INSUFFICIENT DATA



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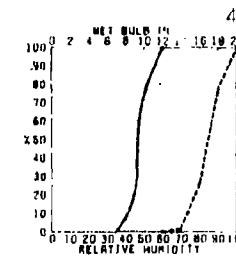
INSUFFICIENT DATA

40

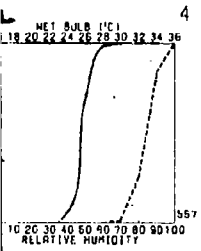
INSUFFICIENT DATA



42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

4


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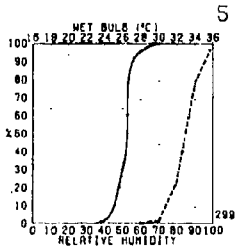

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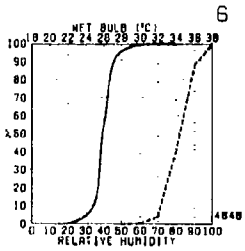

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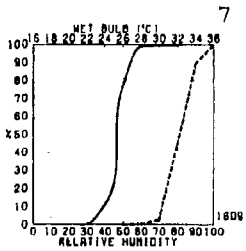

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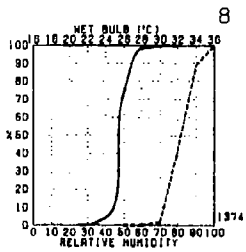

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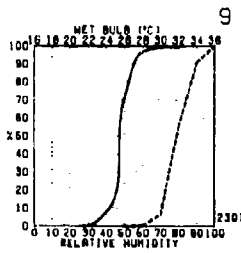

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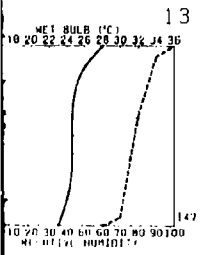

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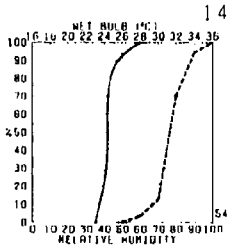

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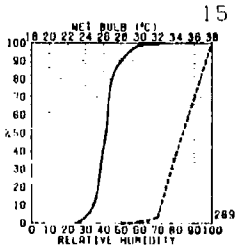

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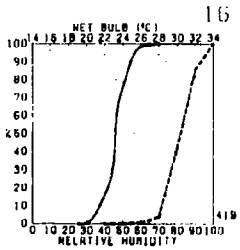

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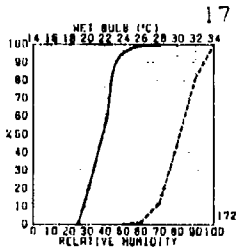

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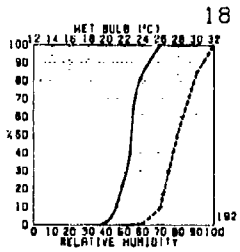

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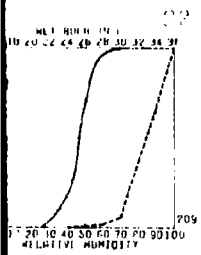

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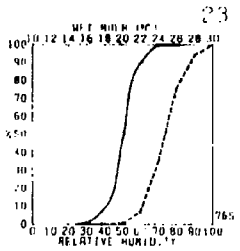

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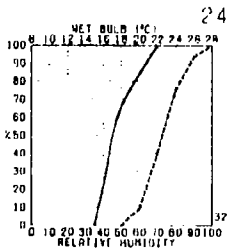

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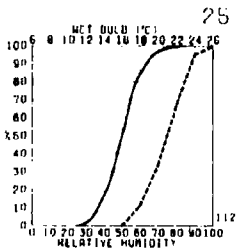

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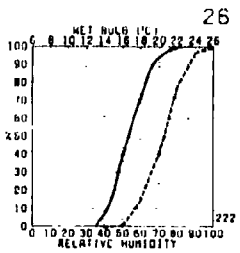

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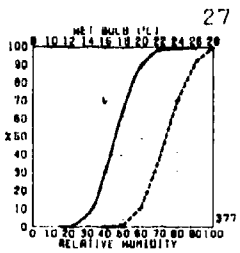

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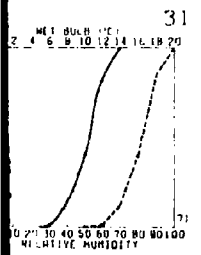

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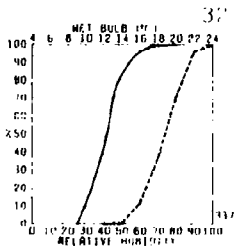

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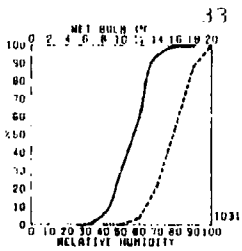

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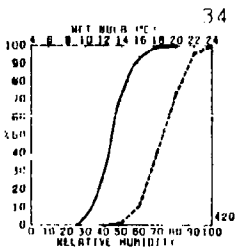

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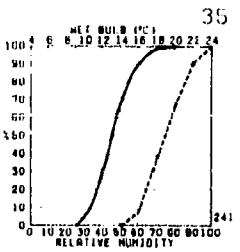

36

INSUFFICIENT DATA

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SUFFICIENT DATA

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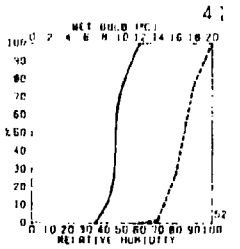

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INSUFFICIENT DATA

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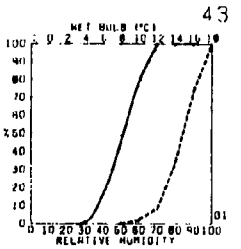

44

INSUFFICIENT DATA

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INSUFFICIENT DATA

...e compilation of available data for specified areas without regard to suspected biases.
...te page) are based on all available data subjectively adjusted where bias was evident.

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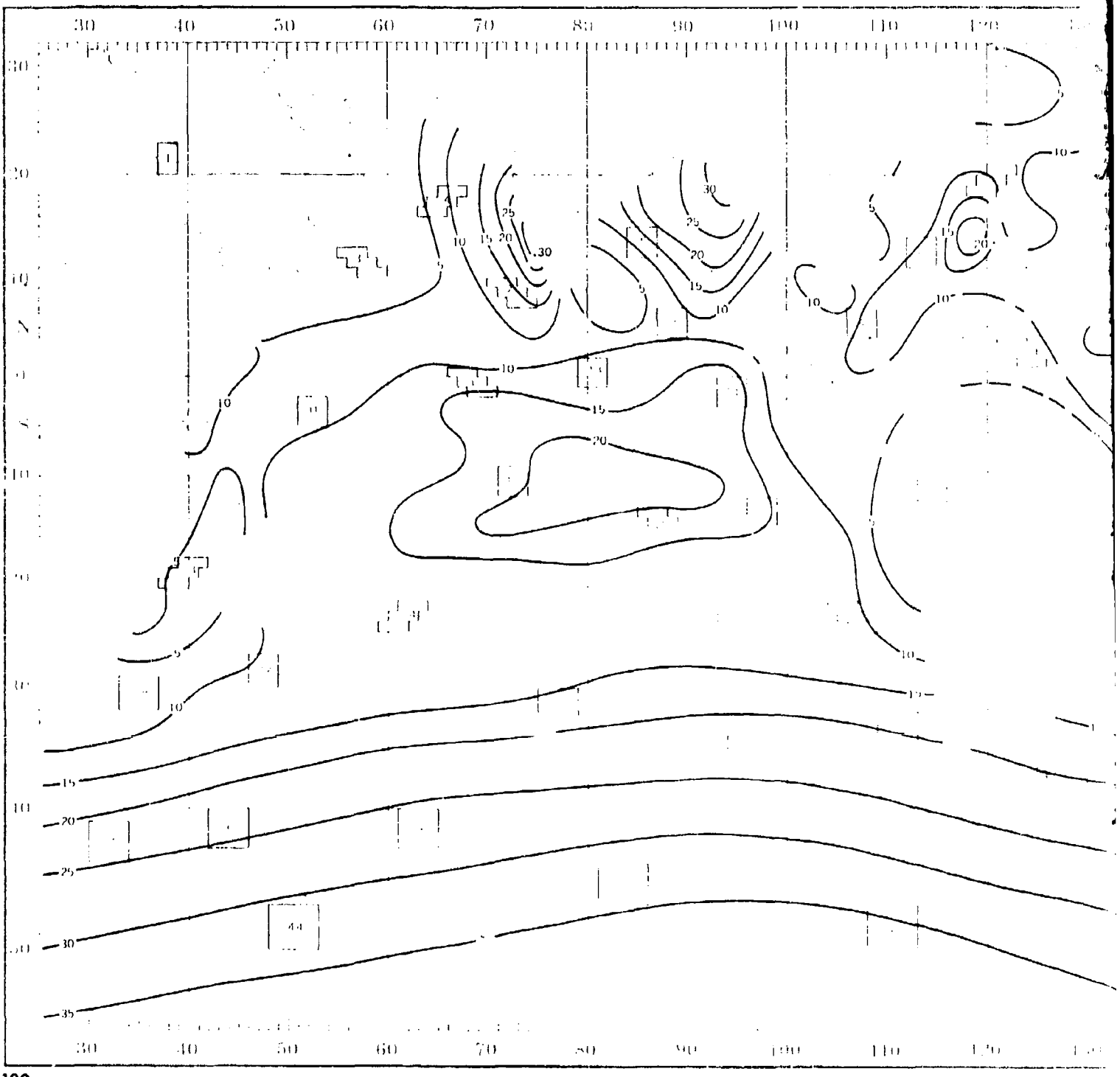

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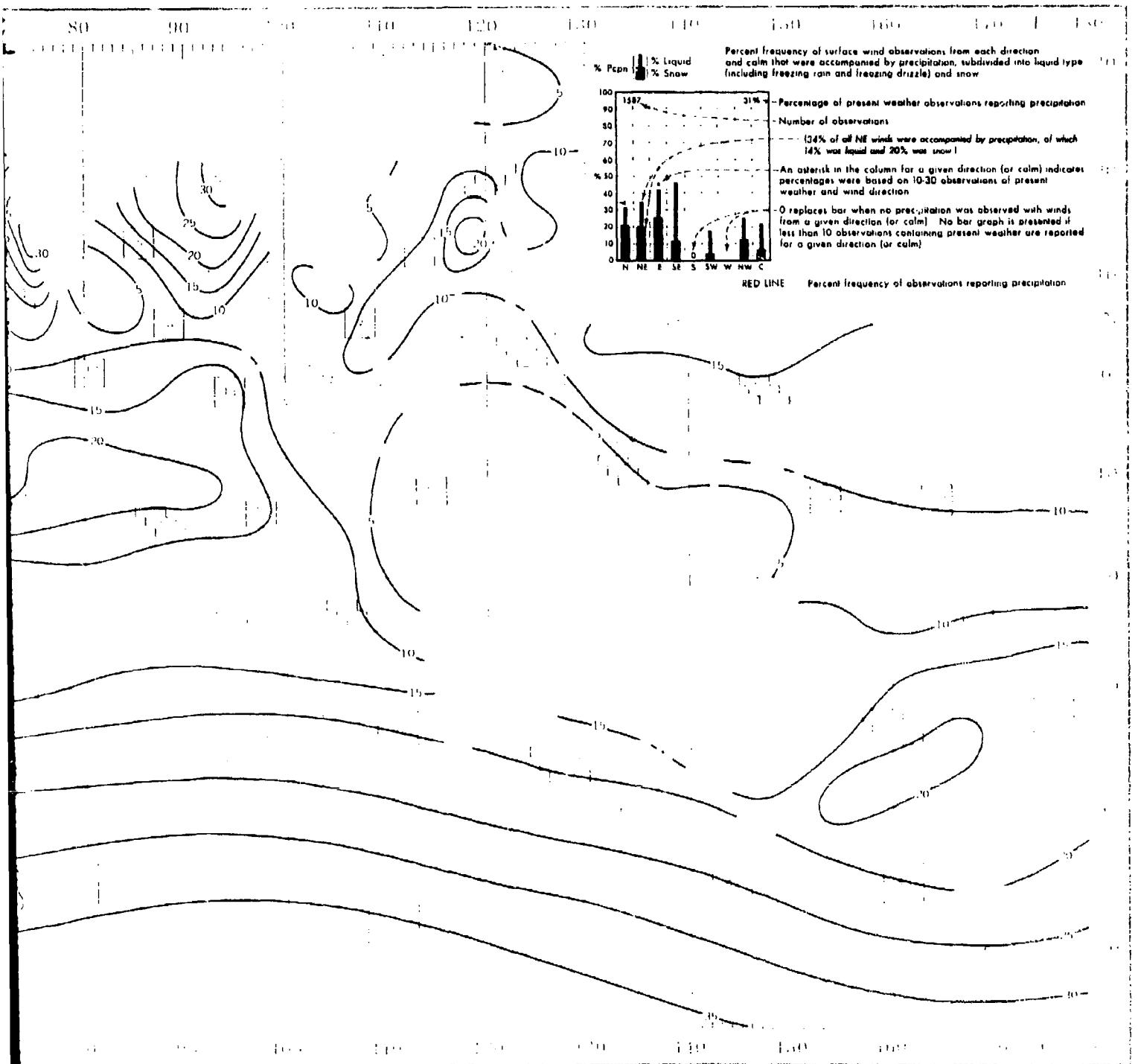

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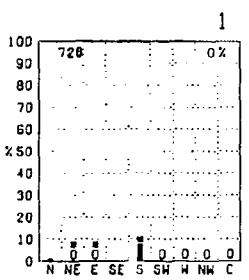
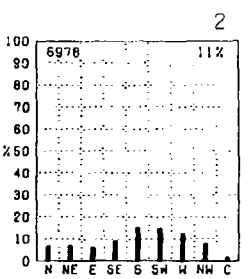
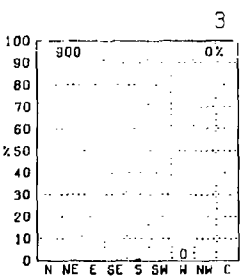
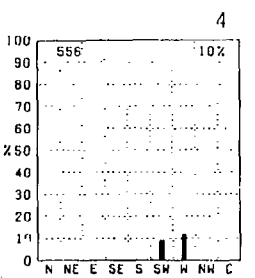
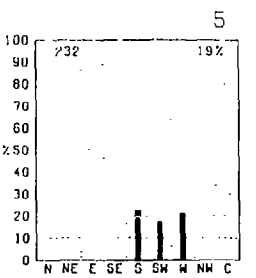
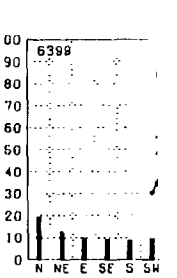


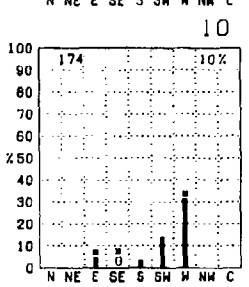


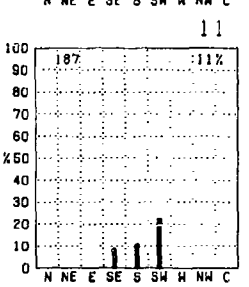


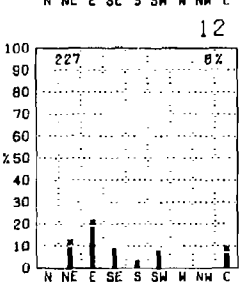


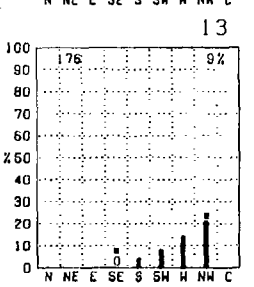






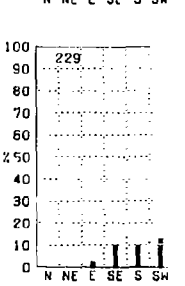


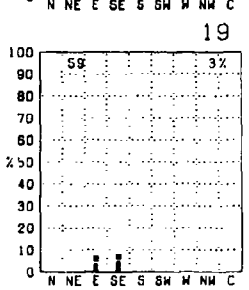


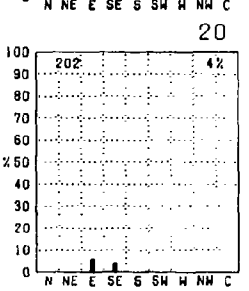


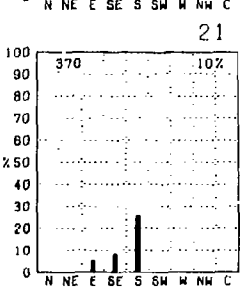
14

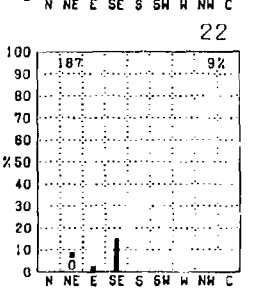
INSUFFICIENT DATA

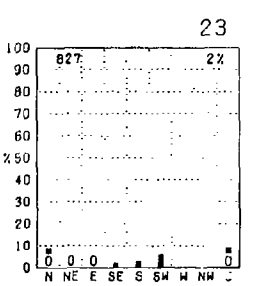


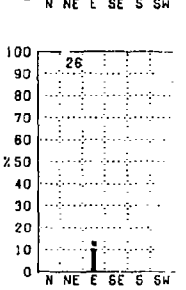


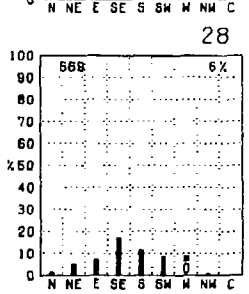


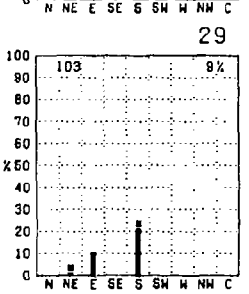


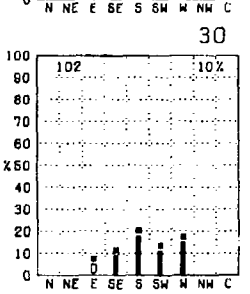


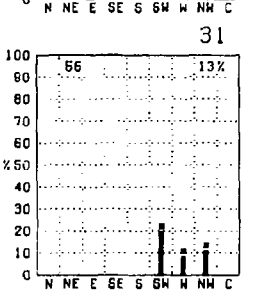


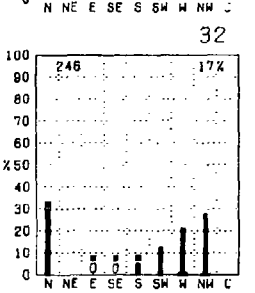


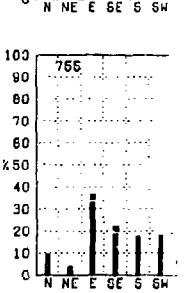












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INSUFFICIENT DATA

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Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively ac

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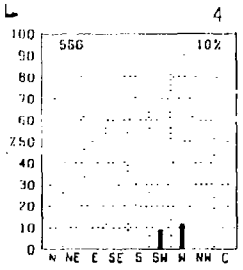

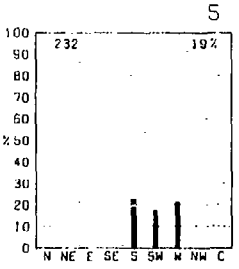

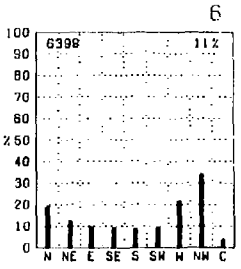

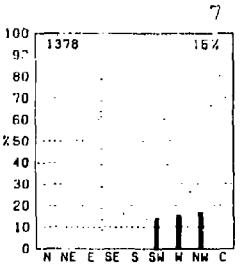

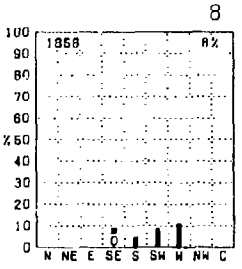

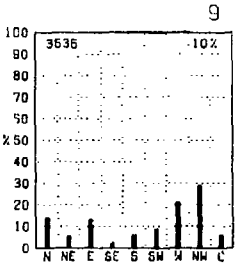

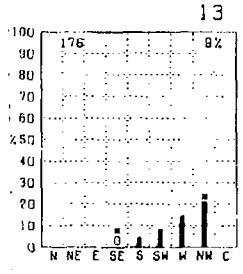

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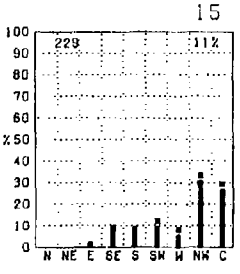
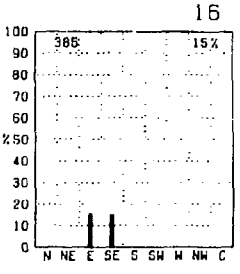
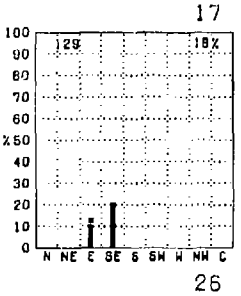
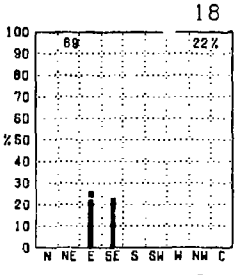
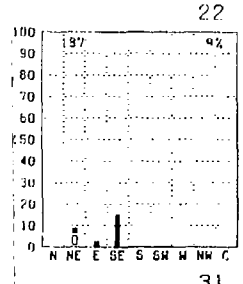
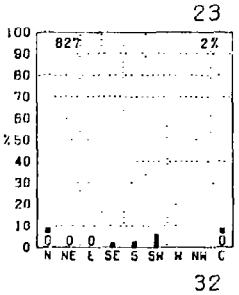


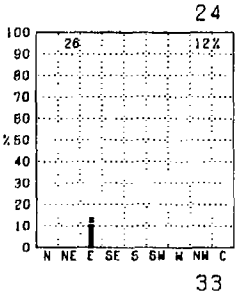


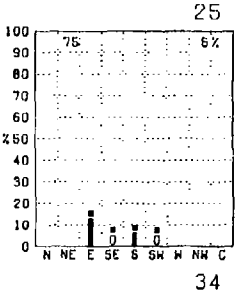


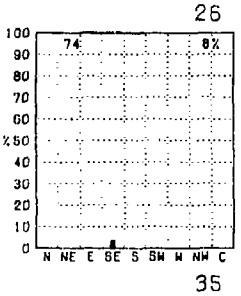


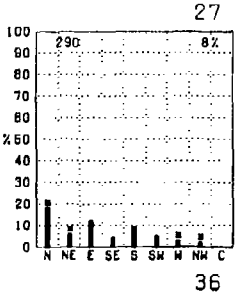


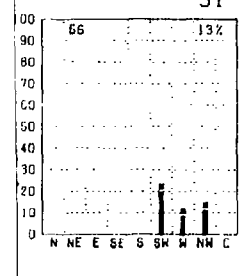


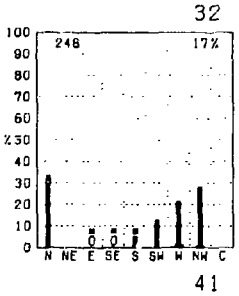


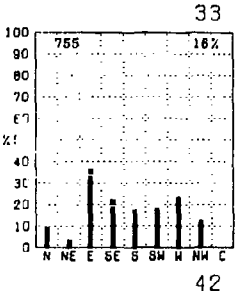


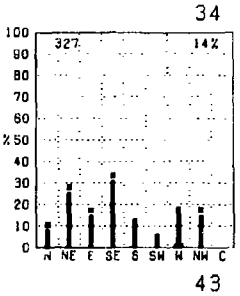


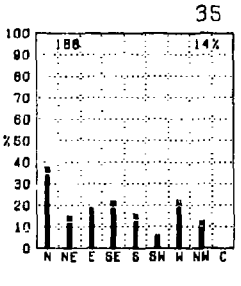












36

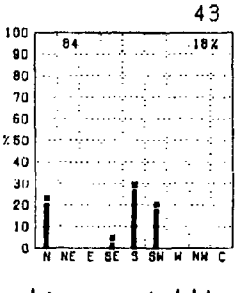
INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA



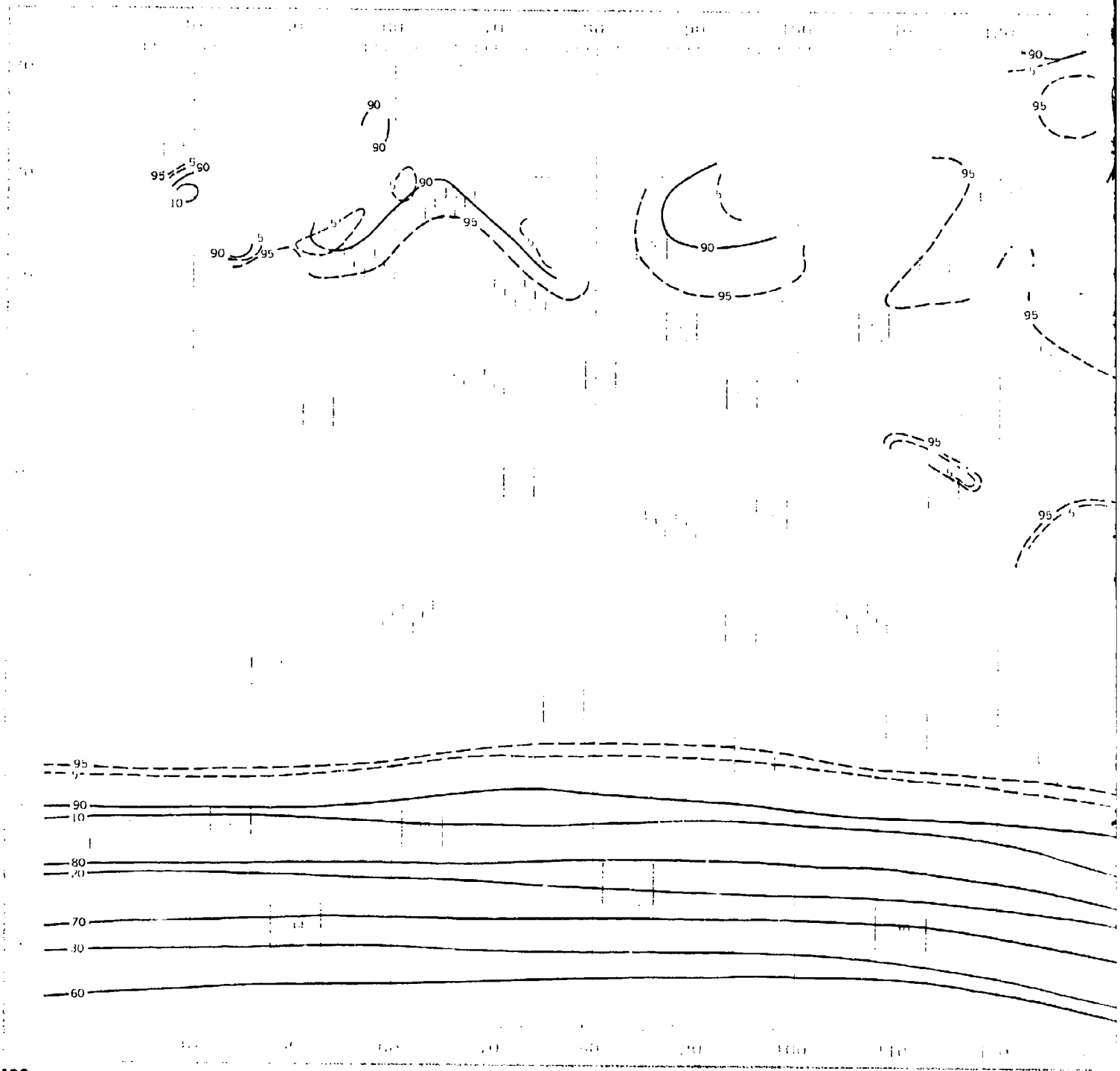
INSUFFICIENT DATA

45

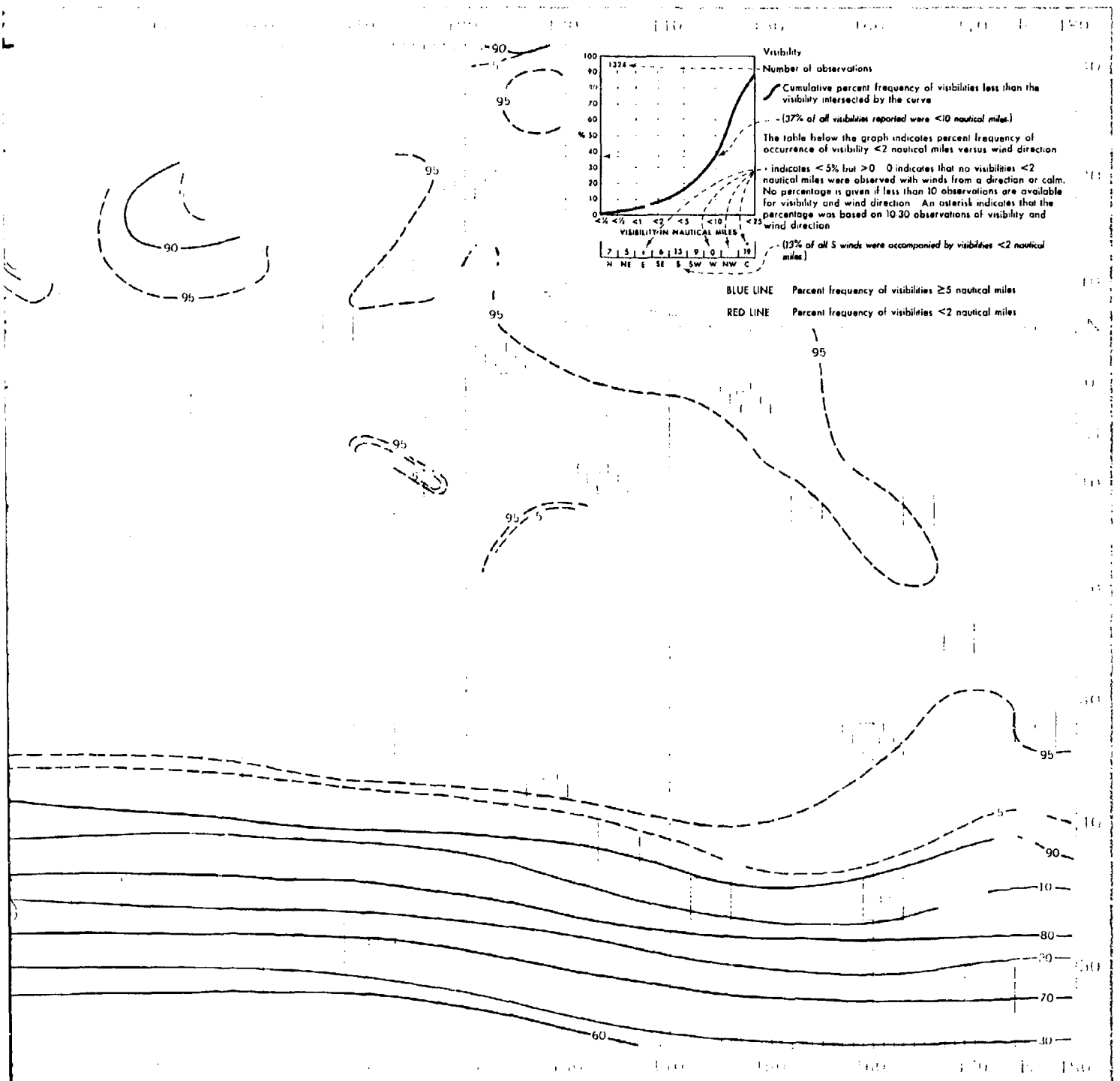
INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

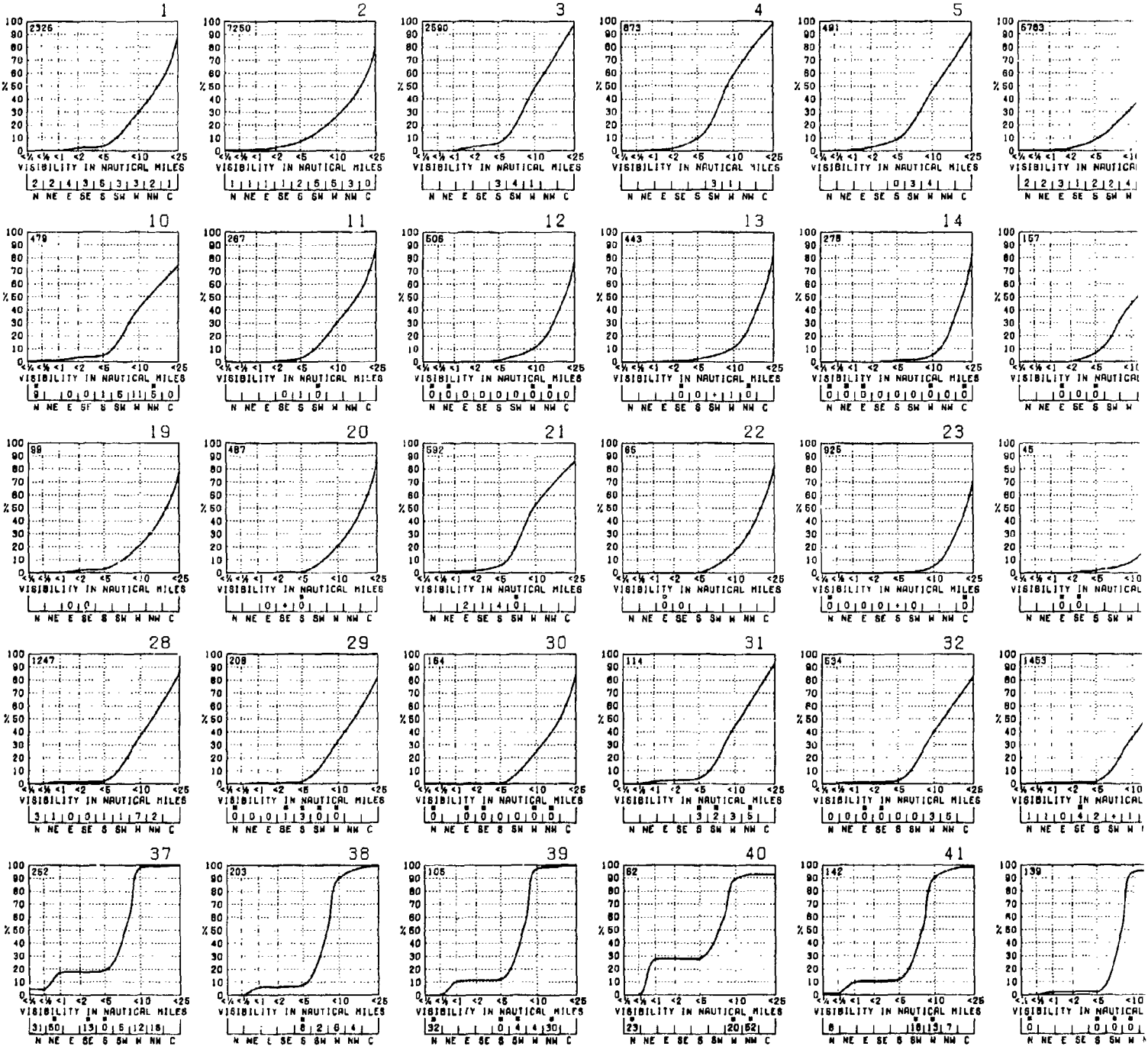
JULY



VISIBILITY

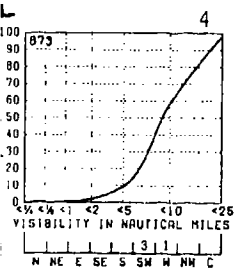

Visibility
Number of observations
Cumulative percent frequency of visibilities less than the visibility intersected by the curve
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction
+ indicates < 5% but >0 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
1374
% 30
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE Percent frequency of visibilities ≥5 nautical miles
RED LINE Percent frequency of visibilities <2 nautical miles
90
95
80
70
60

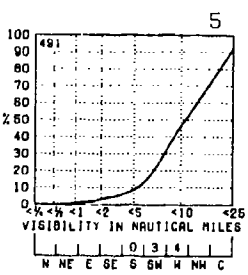
VISIBILITY

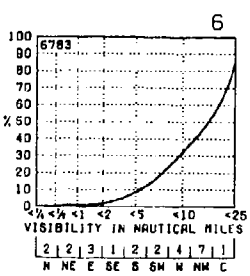


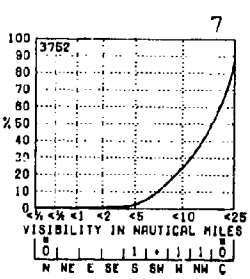
Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

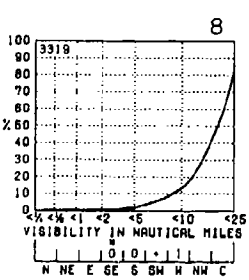
JULY

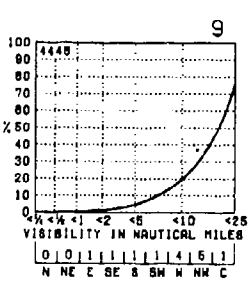


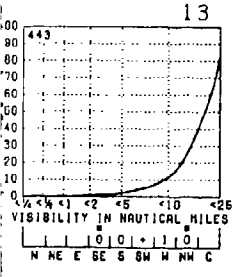


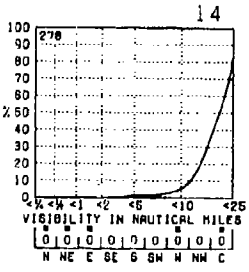


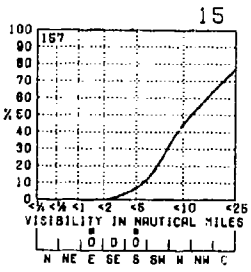


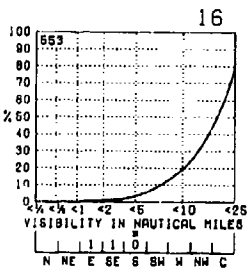


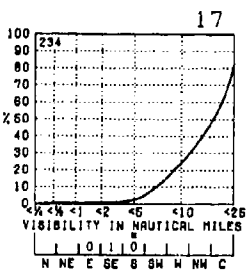


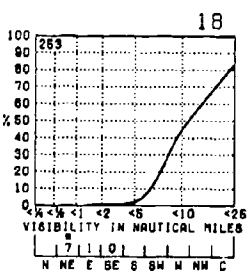


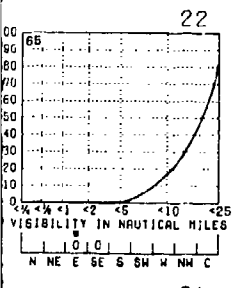


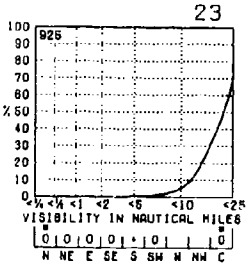


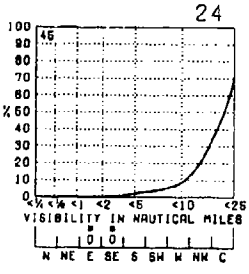


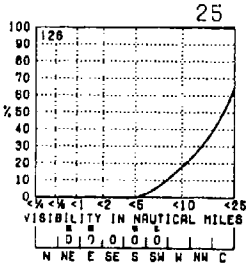


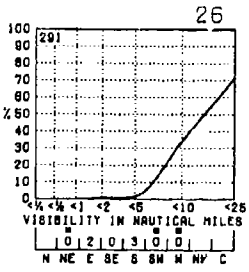


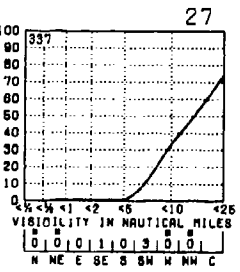


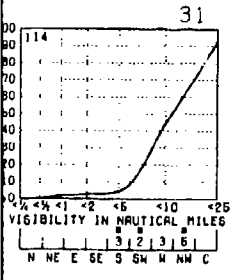


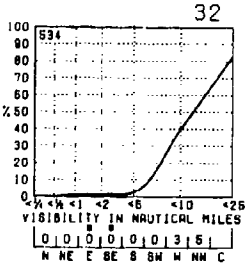


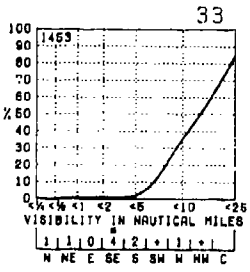


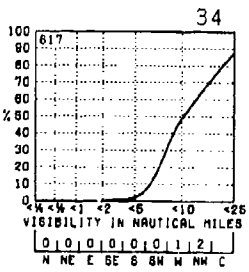


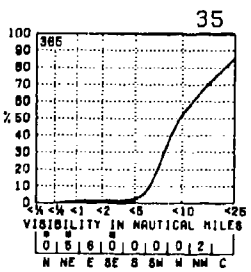


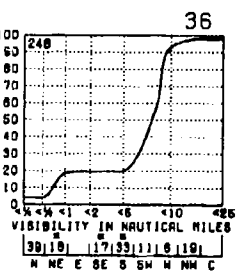


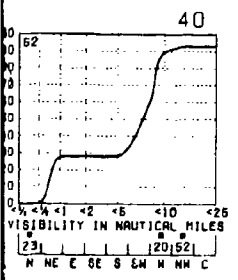


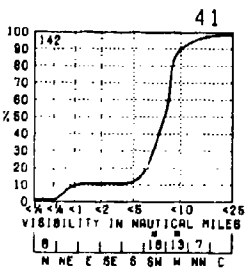


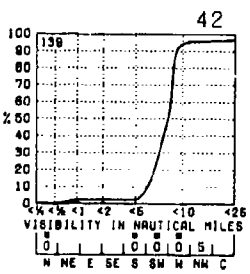


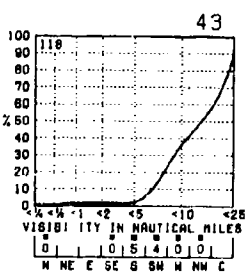












44

INSUFFICIENT DATA

45

INSUFFICIENT DATA

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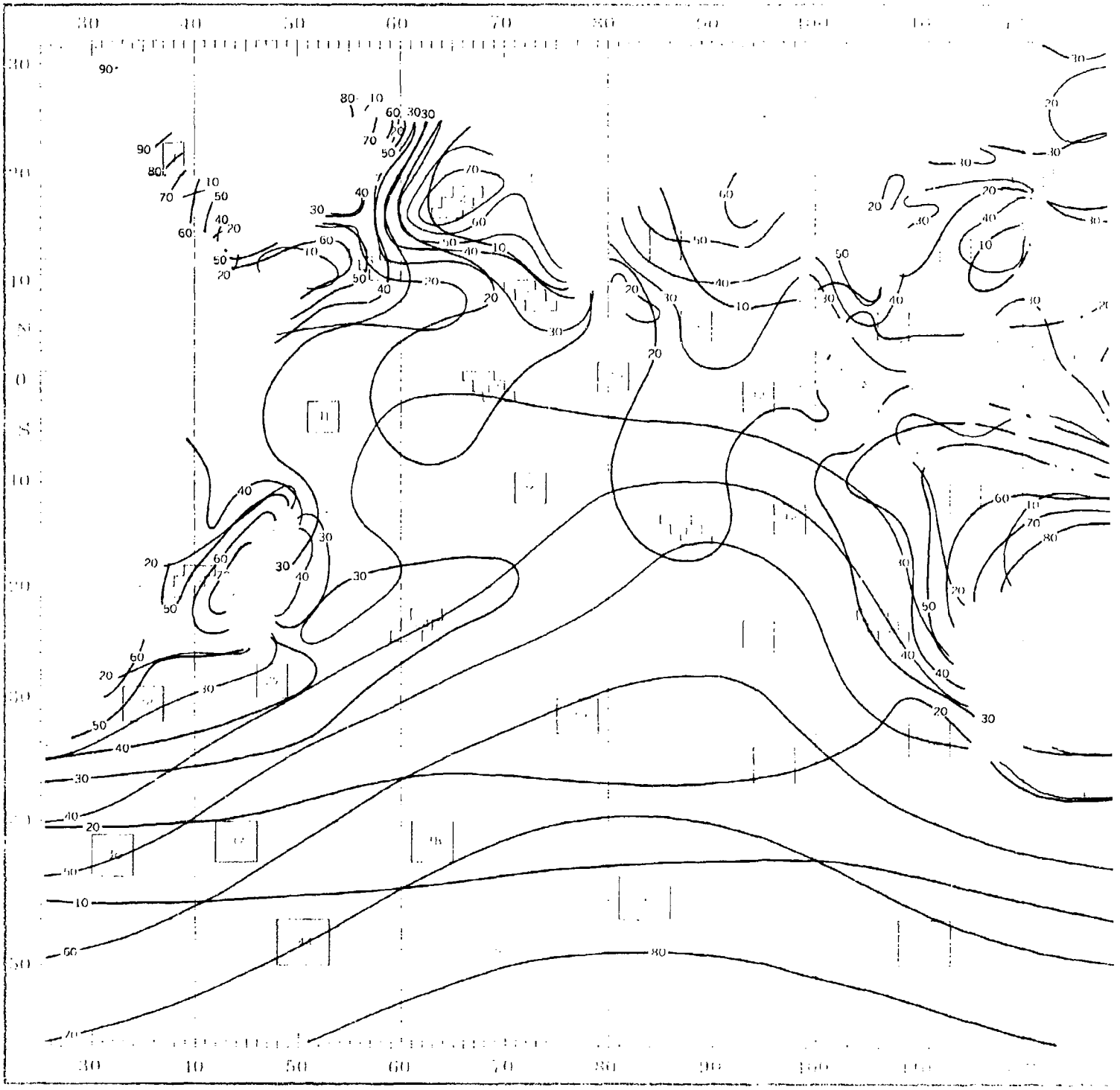
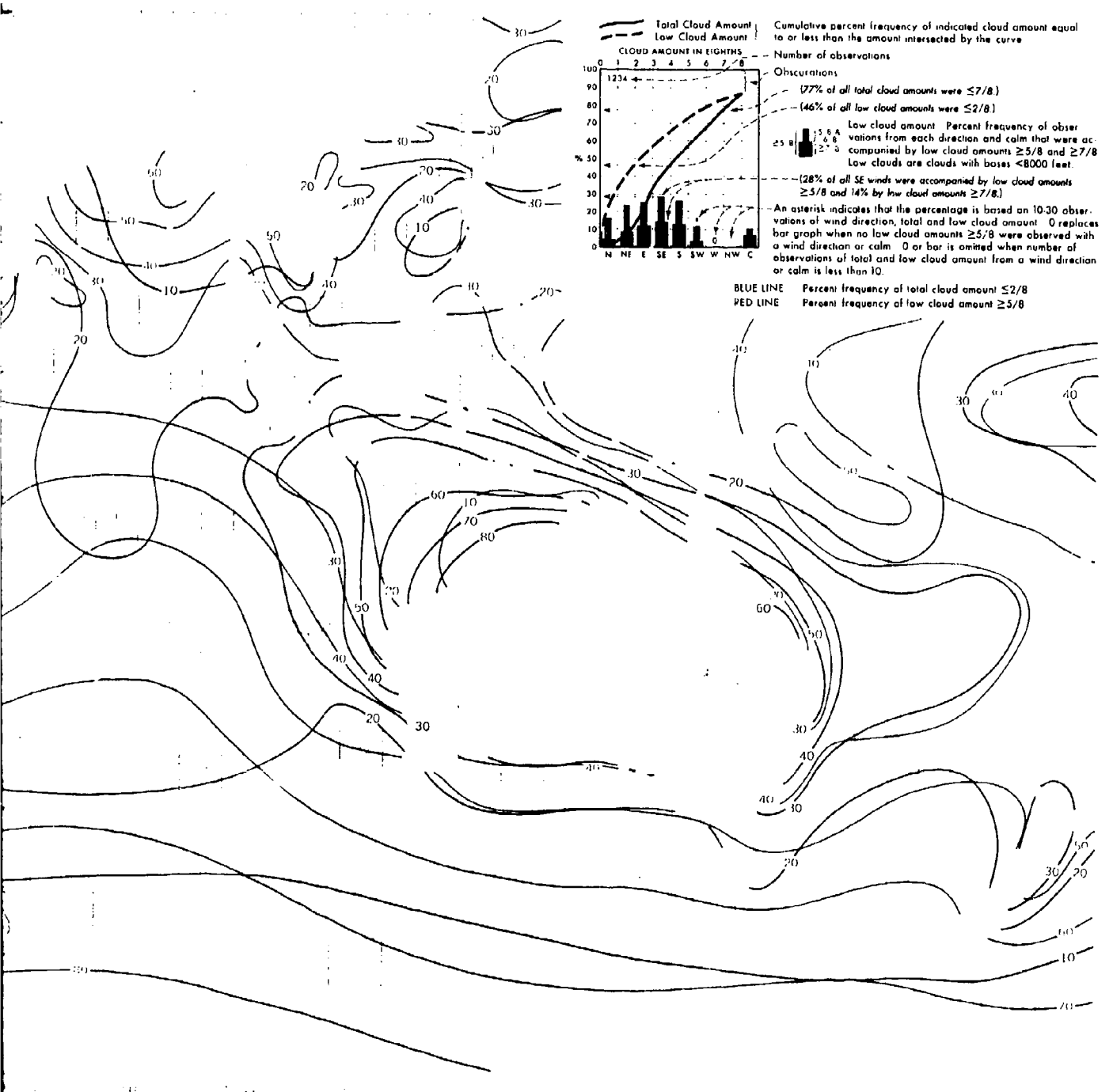
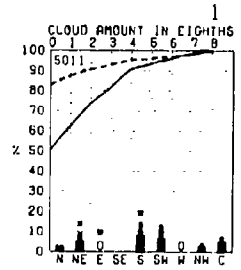
JULY

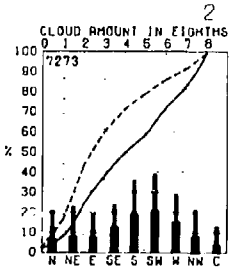


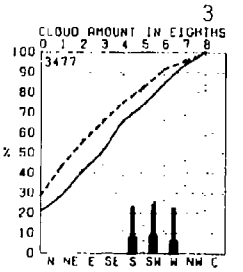
CLOUD COVER

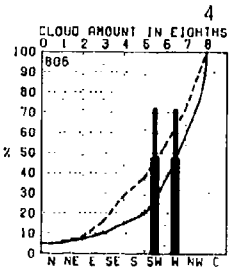

Total Cloud Amount
Low Cloud Amount
CLOUD AMOUNT IN EIGHTHS
0 1 2 3 4 5 6 7 8
1234
%
N NE E SE S SW W NW C
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve
Number of observations
Obscurations
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5/8
Low cloud amount Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8 Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE Percent frequency of total cloud amount ≤2/8
RED LINE Percent frequency of low cloud amount ≥5/8

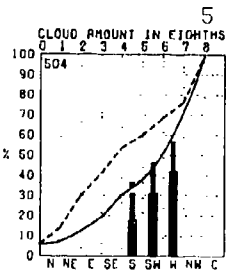
CLOUD COVER

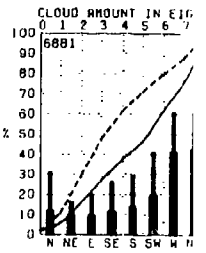


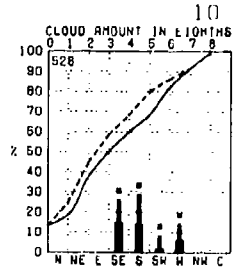


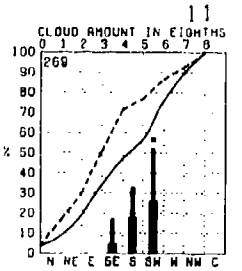


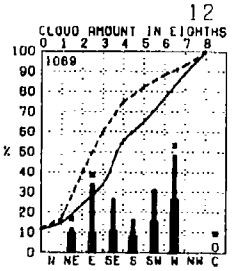


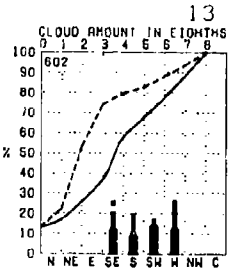


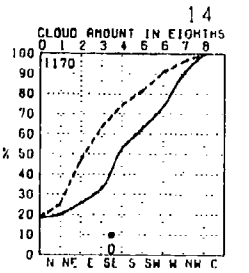


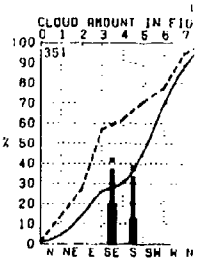


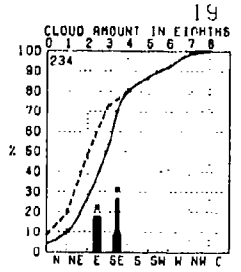


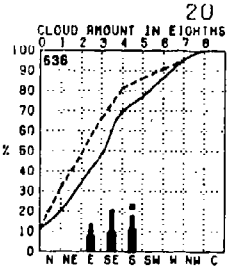


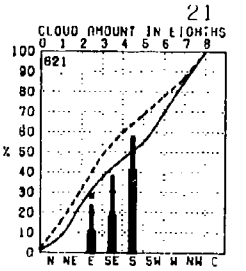


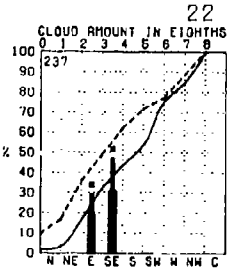


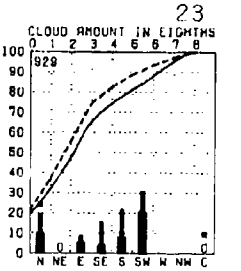


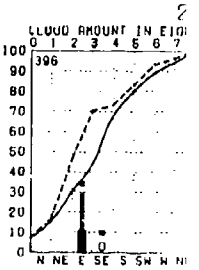


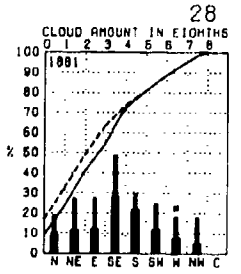


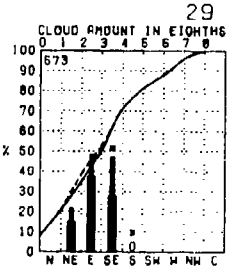


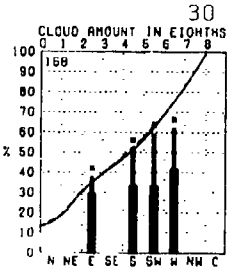


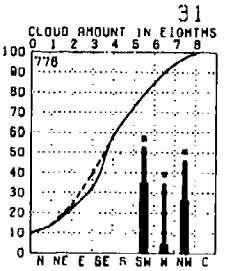


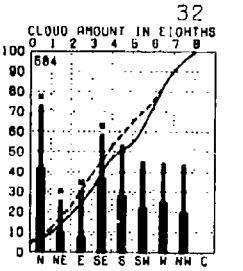


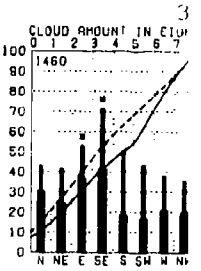


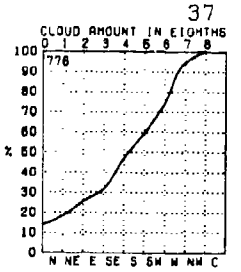


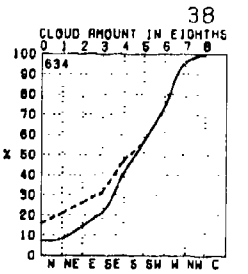


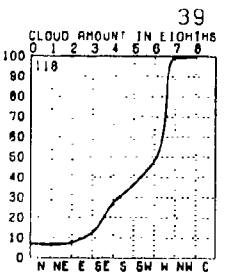


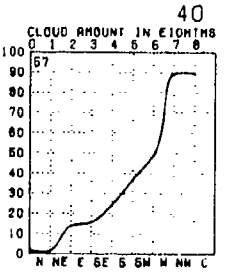


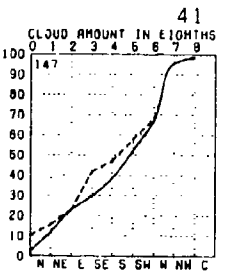


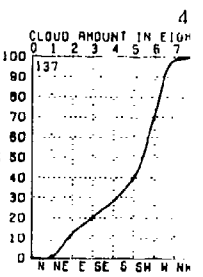












Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

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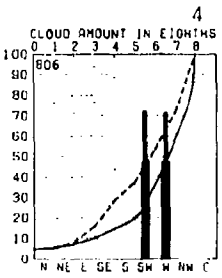

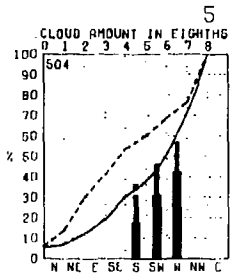

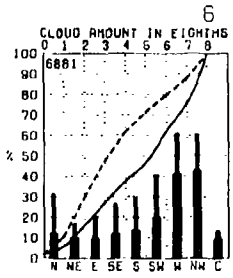

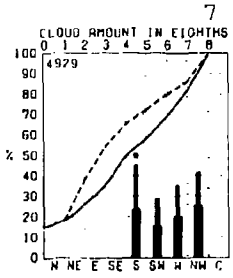

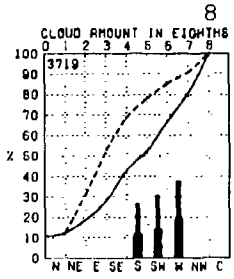

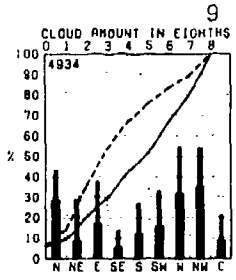

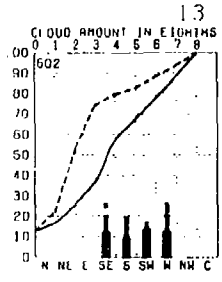

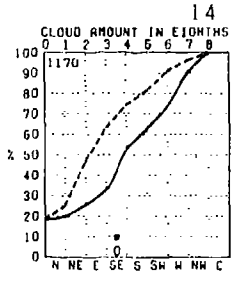

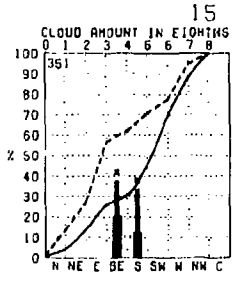

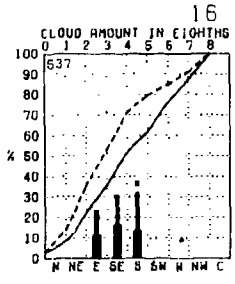

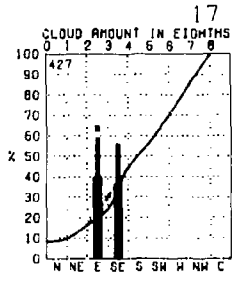

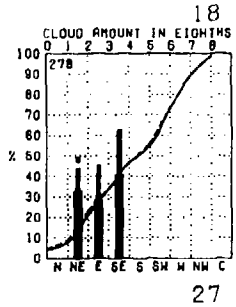

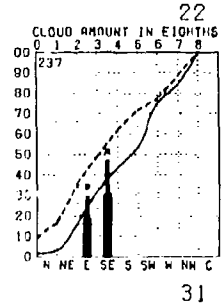

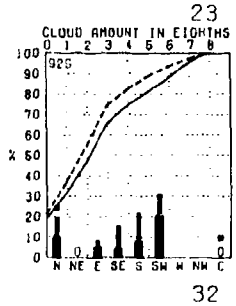

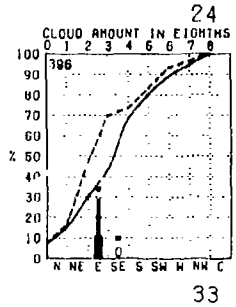

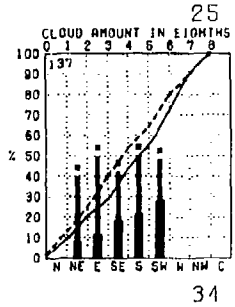

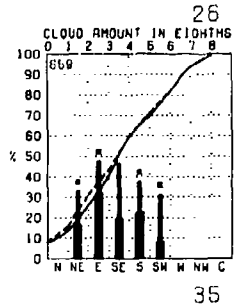

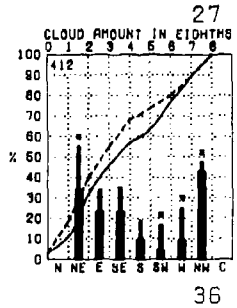

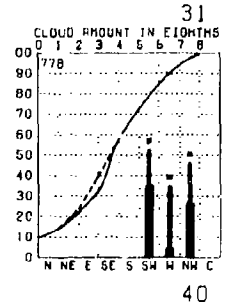

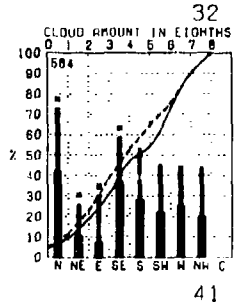

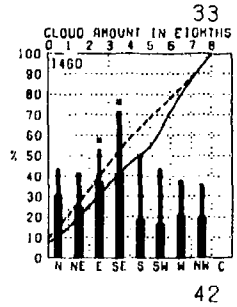

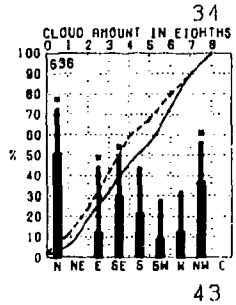

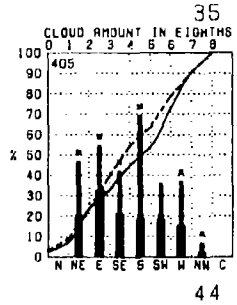

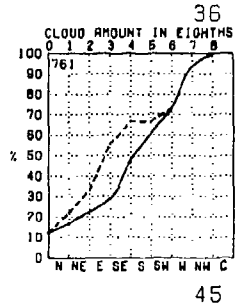

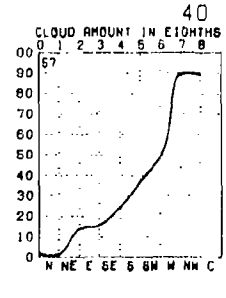

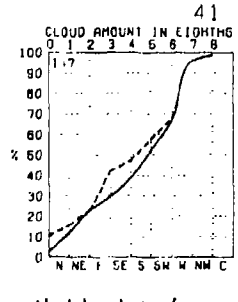

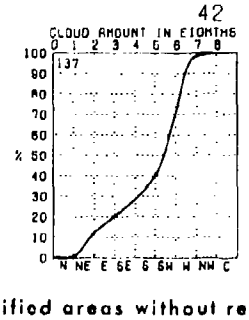

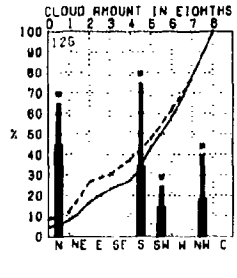

44

INSUFFICIENT DATA

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INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

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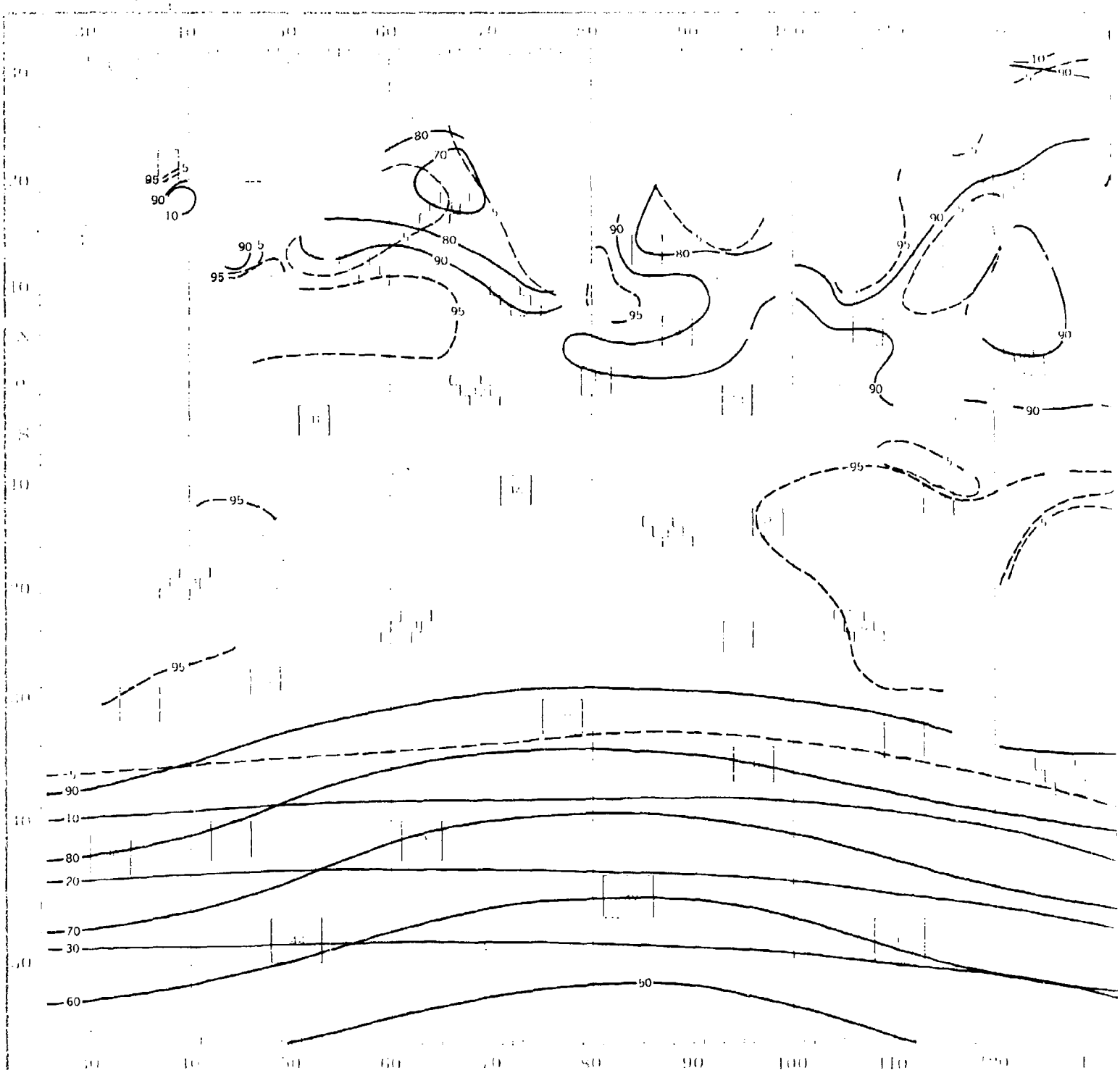

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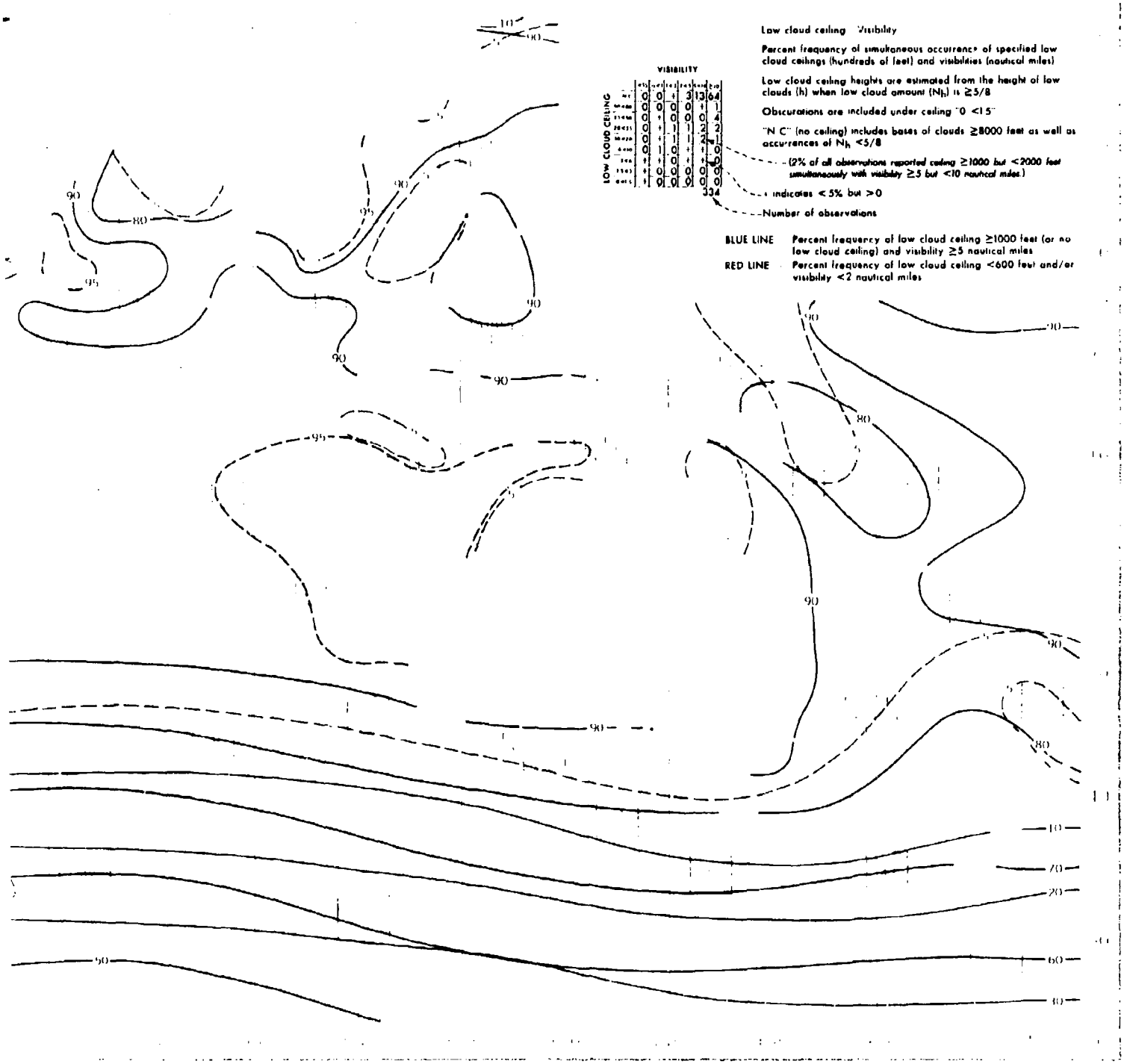
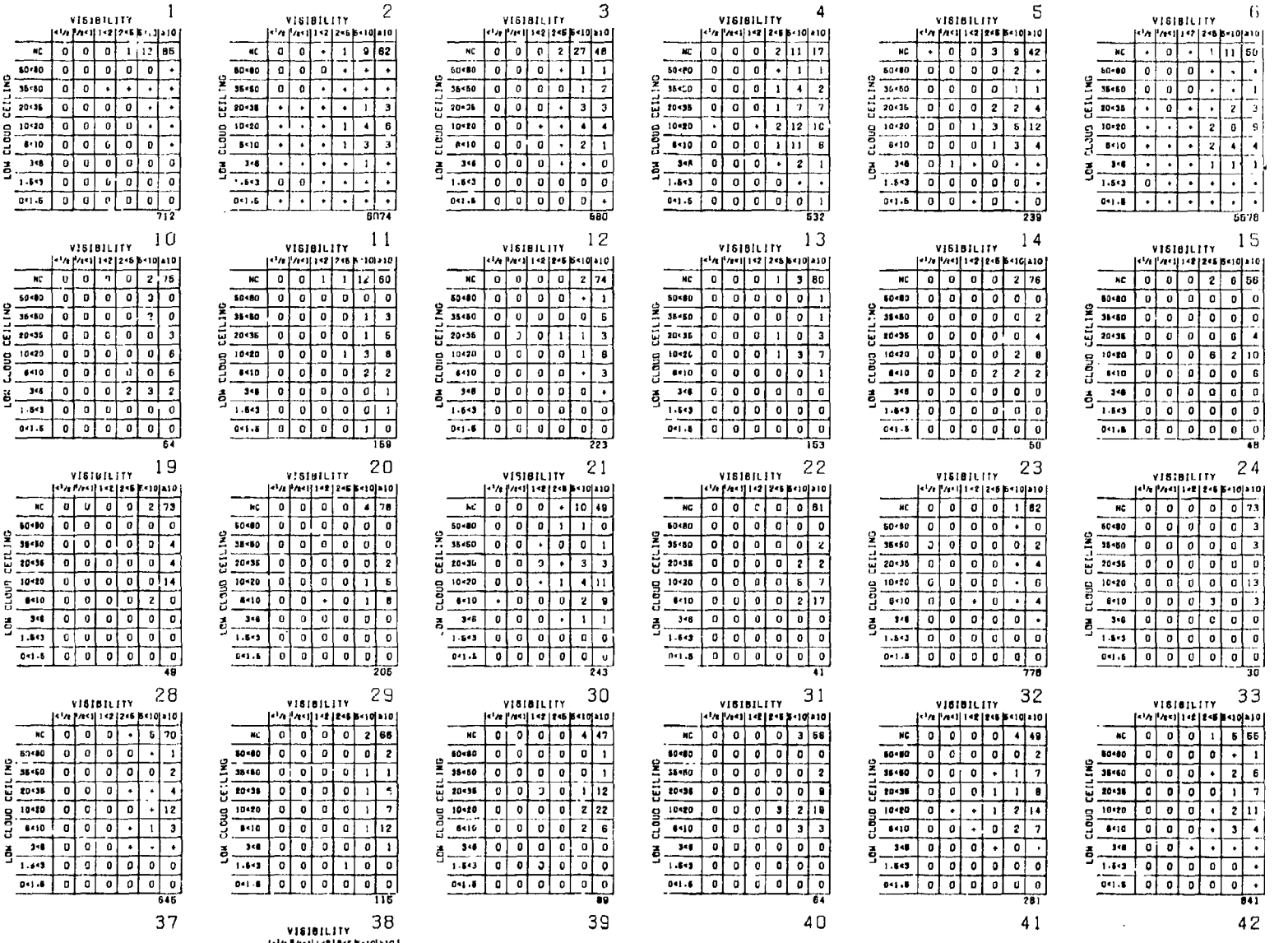
CEILING AND VISIBILITY



CEILING AND VISIBILITY



Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

JULY

4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	11	17
50-<80	0	0	0	+	1	1
35-<50	0	0	0	1	4	2
20-<35	0	0	0	1	7	7
10-<20	+	0	+	2	12	10
5-<10	0	0	0	1	11	6
3-<5	0	0	0	+	2	1
1-<3	0	0	0	0	+	+
0-<1	0	0	0	0	0	1

632

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	3	9	42
50-<80	0	0	0	0	2	+
35-<50	0	0	0	0	1	1
20-<35	0	0	0	2	2	4
10-<20	0	0	1	3	6	12
5-<10	0	0	0	1	3	4
3-<5	0	1	+	0	+	+
1-<3	0	0	0	0	0	+
0-<1	0	0	+	0	+	0

239

6

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	1	11	50
50-<80	0	0	0	+	+	1
35-<50	0	0	0	+	+	1
20-<35	+	0	+	+	2	3
10-<20	+	+	+	2	6	9
5-<10	+	+	+	2	4	4
3-<5	+	+	+	1	1	1
1-<3	0	+	+	+	+	+
0-<1	+	+	+	+	+	+

5578

7

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	4	61
50-<80	0	0	0	+	1	1
35-<50	0	0	0	+	1	4
20-<35	0	0	+	+	1	6
10-<20	+	+	+	1	3	8
5-<10	0	0	0	1	2	4
3-<5	0	0	0	0	+	+
1-<3	0	0	0	0	+	0
0-<1	0	+	0	0	+	+

1321

8

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	5	65
50-<80	0	0	0	0	0	+
35-<50	0	0	0	0	1	2
20-<35	0	0	+	+	1	6
10-<20	+	0	0	+	3	9
5-<10	0	0	+	+	1	4
3-<5	0	+	0	+	+	1
1-<3	0	0	0	0	+	+
0-<1	0	+	0	+	+	0

1442

9

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	7	59
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	+	1
20-<35	0	+	+	+	2	4
10-<20	0	0	+	1	4	9
5-<10	+	+	+	1	3	4
3-<5	0	0	+	+	1	1
1-<3	0	0	0	+	+	+
0-<1	0	+	+	+	+	+

2424

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	80
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	1	0	3
10-<20	0	0	0	1	3	7
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

153

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	76
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	4
10-<20	0	0	0	0	2	8
5-<10	0	0	0	2	2	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

50

15

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	8	66
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	6	4
10-<20	0	0	0	6	2	10
5-<10	0	0	0	0	0	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

48

16

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	68
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	+	3
20-<35	0	0	0	0	1	4
10-<20	0	0	0	1	5	4
5-<10	0	+	+	1	3	5
3-<5	0	0	+	+	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

393

17

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	40
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	1	3
20-<35	0	0	0	0	1	11
10-<20	0	0	0	0	4	22
5-<10	1	0	0	0	3	4
3-<5	0	0	0	0	3	1
1-<3	0	0	0	0	1	0
0-<1	0	0	0	0	0	0

156

18

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	45
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	3	11
20-<35	0	0	0	0	4	10
10-<20	0	0	0	0	4	16
5-<10	0	0	0	0	1	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

105

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	61
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	2	2
10-<20	0	0	0	0	5	7
5-<10	0	0	0	0	2	17
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

41

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	82
50-<80	0	0	0	0	+	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	+	4
10-<20	0	0	0	0	+	6
5-<10	0	0	+	0	+	4
3-<5	0	0	0	0	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

778

24

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	73
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	0	0
10-<20	0	0	0	0	0	13
5-<10	0	0	0	3	0	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

30

25

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	53
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	9
20-<35	0	0	0	0	1	6
10-<20	0	0	0	0	1	18
5-<10	0	0	0	0	1	7
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

89

26

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	56
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	1	13
20-<35	0	0	0	1	1	13
10-<20	0	0	0	0	3	6
5-<10	0	0	0	0	0	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

149

27

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	87
50-<80	0	0	0	0	1	0
35-<50	0	0	0	0	0	4
20-<35	0	0	0	0	2	5
10-<20	0	0	0	0	3	9
5-<10	0	0	0	0	2	5
3-<5	0	0	0	0	1	2
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	1

200

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	58
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	8
10-<20	0	0	0	3	2	19
5-<10	0	0	0	0	3	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

64

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	48
50-<80	0	0	0	0	0	2
35-<50	0	0	0	+	1	7
20-<35	0	0	0	1	1	8
10-<20	0	+	+	1	2	14
5-<10	0	0	+	0	2	7
3-<5	0	0	0	+	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

281

33

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	5	55
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	2	6
20-<35	0	0	0	0	1	7
10-<20	0	0	0	+	2	11
5-<10	0	0	0	+	3	4
3-<5	0	0	+	+	+	+
1-<3	0	0	0	0	0	+
0-<1	0	0	0	0	0	+

841

34

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	4	54
50-<80	0	0	0	0	0	1
35-<50	0	0	0	+	+	2
20-<35	0	0	0	0	1	4
10-<20	0	0	+	1	3	18
5-<10	0	0	+	+	2	7
3-<5	0	0	0	+	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	+

312

35

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	64
50-<80	0	0	0	0	1	1
35-<50	0	0	0	0	1	0
20-<35	0	0	0	0	1	2
10-<20	0	0	0	0	3	19
5-<10	0	0	0	2	3	10
3-<5	0	0	0	1	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

141

36

INSUFFICIENT DATA

40

}

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	38
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	4
20-<35	0	0	0	0	1	12
10-<20	0	0	0	0	8	18
5-<10	0	0	0	0	7	8
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

78

44

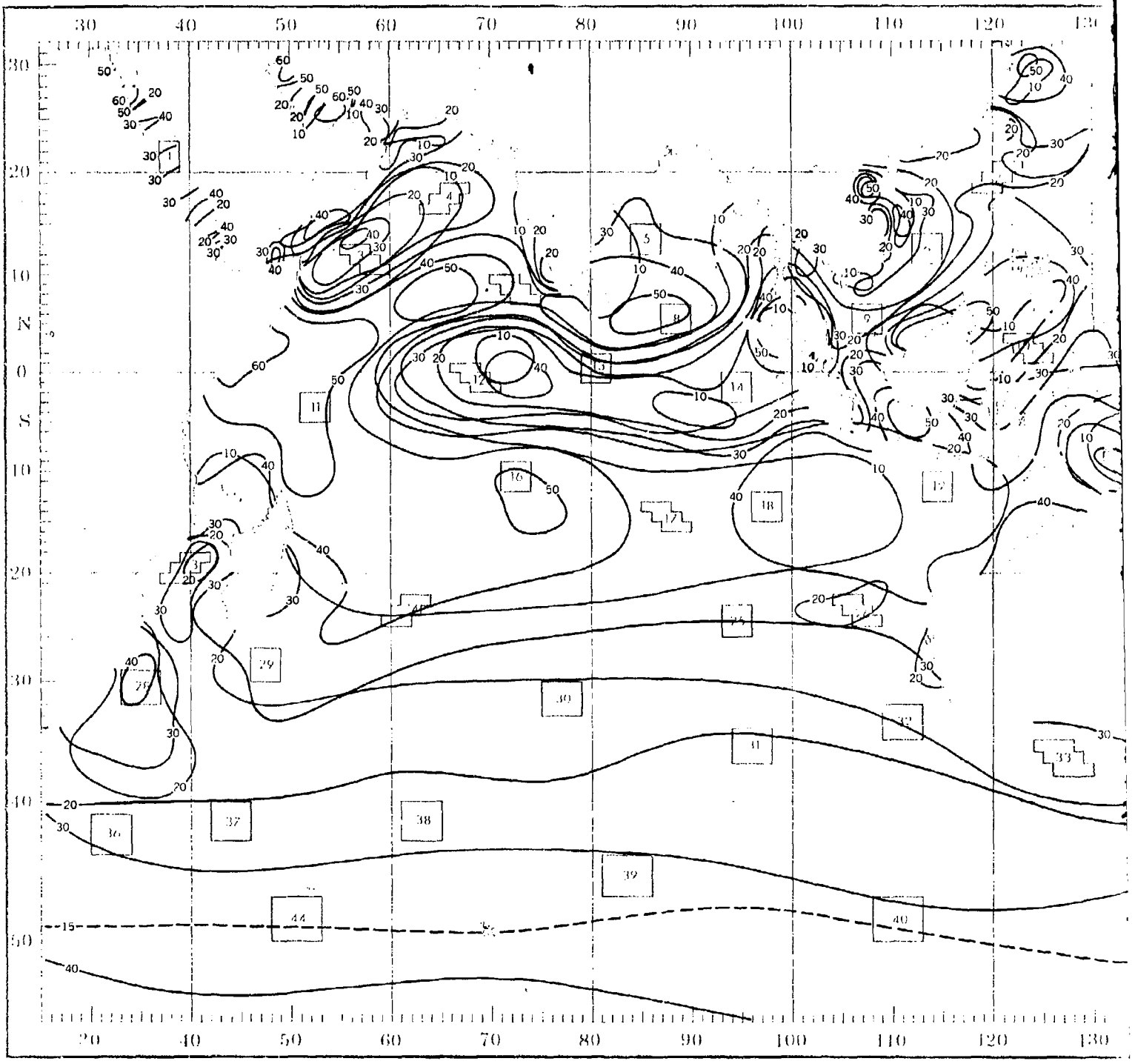
INSUFFICIENT DATA

45

INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

JULY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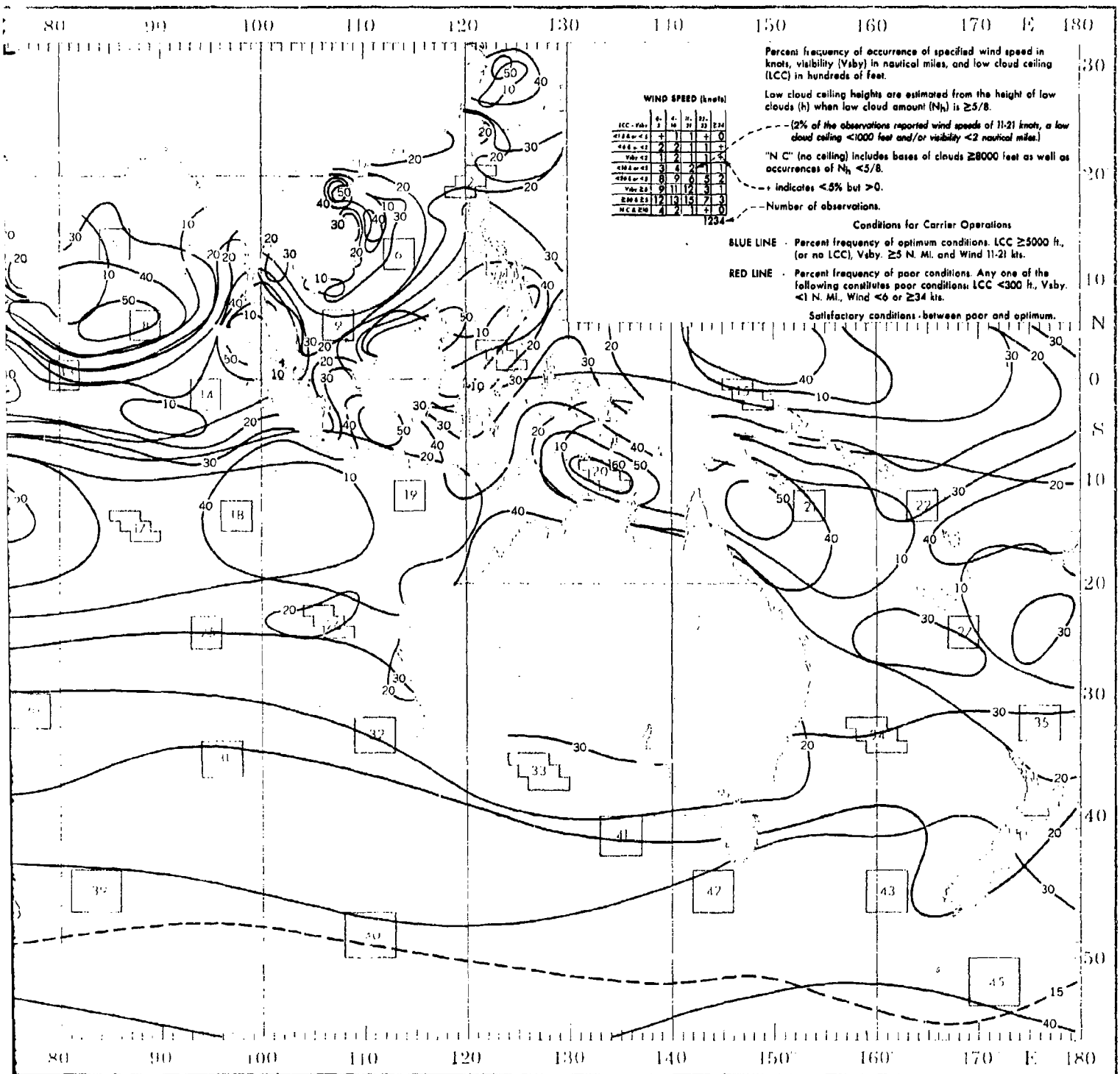
WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	+	0	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	0	+	0	0	0
<20 & OR <5	+	1	+	0	0
VSBY ≥5	15	53	29	1	0
≥50 & ≥5	15	53	29	1	0
NC & ≥10	13	48	24	1	0

698

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	+
<5 & OR <2	+	1	2	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	+	3	6	2	+
<20 & OR <5	1	8	10	4	1
VSBY ≥5	9	47	32	6	+
≥50 & ≥5	8	38	22	3	+
NC & ≥10	7	34	19	2	+

6042

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	+
<5 & OR <2	0	0	+	0	1
VSBY <2	0	0	0	0	+
<10 & OR <2	0	0	1	1	2
<20 & OR <5	0	0	1	9	4
VSBY ≥5	0	+	11	63	23
≥50 & ≥5	0	+	9	51	18
NC & ≥10	0	+	8	32	10

876

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	0
<5 & OR <2	0	0	1	2	1
VSBY <2	0	0	0	+	0
<10 & OR <2	0	1	8	12	3
<20 & OR <5	0	1	17	27	5
VSBY ≥5	0	3	33	47	9
≥50 & ≥5	0	2	12	14	2
NC & ≥10	0	1	9	7	1

528

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	+	2	2	+
VSBY <2	0	+	1	1	+
<10 & OR <2	0	1	8	3	1
<20 & OR <5	0	4	16	15	2
VSBY ≥5	+	11	54	22	2
≥50 & ≥5	+	9	34	8	2
NC & ≥10	+	8	27	6	1

236

WIND SP

LCC - VSBY	0-3
<1.5 & OR <.5	+
<5 & OR <2	+
VSBY <2	+
<10 & OR <2	+
<20 & OR <5	1
VSBY ≥5	6
≥50 & ≥5	5
NC & ≥10	4

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	2	3	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	9	2	0	0
<20 & OR <5	3	11	5	0	0
VSBY ≥5	16	61	22	0	0
≥50 & ≥5	11	48	17	0	0
NC & ≥10	11	47	17	0	0

84

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	0	6	0	0
<20 & OR <5	1	2	14	2	0
VSBY ≥5	2	25	68	3	0
≥50 & ≥5	2	21	47	2	0
NC & ≥10	2	17	39	2	0

159

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	3	+	0	0
<20 & OR <5	1	9	4	0	0
VSBY ≥5	18	63	18	0	0
≥50 & ≥5	16	48	13	0	0
NC & ≥10	16	46	13	0	0

219

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	1	0	0
<20 & OR <5	1	7	5	0	0
VSBY ≥5	7	61	30	0	0
≥50 & ≥5	5	52	25	0	0
NC & ≥10	5	52	22	0	0

149

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	2	0
<20 & OR <5	0	10	4	2	0
VSBY ≥5	25	54	19	0	0
≥50 & ≥5	25	38	15	0	0
NC & ≥10	25	35	15	0	0

48

WIND SP

LCC - VSBY	0-3
<1.5 & OR <.5	0
<5 & OR <2	0
VSBY <2	0
<10 & OR <2	2
<20 & OR <5	10
VSBY ≥5	17
≥50 & ≥5	10
NC & ≥10	8

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	0	0
<20 & OR <5	0	8	10	0	0
VSBY ≥5	0	35	63	2	0
≥50 & ≥5	0	29	47	0	0
NC & ≥10	0	29	45	0	0

49

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	0	8	+	0
<20 & OR <5	0	0	16	1	0
VSBY ≥5	0	18	77	7	0
≥50 & ≥5	0	15	60	6	0
NC & ≥10	0	15	58	5	0

205

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	0	2	2	0
VSBY <2	0	0	+	1	0
<10 & OR <2	0	0	8	6	0
<20 & OR <5	0	2	23	8	0
VSBY ≥5	+	11	83	21	0
≥50 & ≥5	+	9	39	12	0
NC & ≥10	+	9	32	8	0

243

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	8	10	0
<20 & OR <5	0	0	18	13	0
VSBY ≥5	5	33	44	18	0
≥50 & ≥5	5	33	21	5	0
NC & ≥10	5	33	21	5	0

39

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	+	+	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	0	1	3	+	0
<20 & OR <5	1	4	5	1	0
VSBY ≥5	11	55	28	5	+
≥50 & ≥5	11	48	20	4	+
NC & ≥10	11	48	20	4	+

772

WIND SP

LCC - VSBY	0-3
<1.5 & OR <.5	0
<5 & OR <2	0
VSBY <2	0
<10 & OR <2	0
<20 & OR <5	0
VSBY ≥5	0
≥50 & ≥5	0
NC & ≥10	0

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	+	+	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	1	3	1	+
<20 & OR <5	1	4	9	3	+
VSBY ≥5	4	32	48	14	1
≥50 & ≥5	3	26	37	10	1
NC & ≥10	3	25	35	9	1

637

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	10	2	0
<20 & OR <5	0	7	14	2	0
VSBY ≥5	1	29	55	15	0
≥50 & ≥5	1	19	39	10	0
NC & ≥10	1	18	37	10	0

116

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	7	0	0
<20 & OR <5	0	8	22	1	0
VSBY ≥5	8	43	48	3	0
≥50 & ≥5	3	29	18	2	0
NC & ≥10	2	27	18	2	0

86

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	5	0
<20 & OR <5	0	3	18	10	2
VSBY ≥5	2	21	43	29	3
≥50 & ≥5	0	13	27	18	0
NC & ≥10	0	13	27	18	0

83

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	+	+	0	1	+
VSBY <2	0	+	0	+	+
<10 & OR <2	1	3	1	4	2
<20 & OR <5	2	7	8	8	5
VSBY ≥5	3	28	31	27	7
≥50 & ≥5	1	15	19	17	3
NC & ≥10	1	13	17	15	3

278

WIND SPE

LCC - VSBY	0-3
<1.5 & OR <.5	0
<5 & OR <2	+
VSBY <2	0
<10 & OR <2	+
<20 & OR <5	1
VSBY ≥5	2
≥50 & ≥5	1
NC & ≥10	1

37

INSUFFICIENT DATA

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	8	12
<20 & OR <5	0	0	8	24	12
VSBY ≥5	0	6	24	53	6
≥50 & ≥5	0	6	12	24	0
NC & ≥10	0	6	12	18	0

17

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	7	0	0
<20 & OR <5	0	7	29	7	0
VSBY ≥5	0	21	36	29	0
≥50 & ≥5	0	14	14	21	0
NC & ≥10	0	14	14	21	0

14

INSUFFIC DAT

Graphs represent the objective compilation of available data for specified areas wi
The isopleth analyses (opposite page) are based on all available data subjectively

TY-WIND

JULY

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	*	0
<5 & OR <2	0	0	1	2	1
VSBY <2	0	0	0	*	0
<10 & OR <2	0	1	8	12	3
<20 & OR <5	0	1	17	27	5
VSBY ≥5	0	3	33	47	9
≥50 & ≥5	0	2	12	14	2
NC & ≥10	0	1	9	7	1

528

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	*	2	2	*
VSBY <2	0	*	1	1	*
<10 & OR <2	0	1	8	3	1
<20 & OR <5	0	4	16	15	2
VSBY ≥5	*	11	54	22	2
≥50 & ≥5	*	9	34	8	2
NC & ≥10	*	8	27	6	1

236

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	*	1	*	*
<5 & OR <2	*	1	3	1	*
VSBY <2	*	*	1	*	*
<10 & OR <2	*	4	8	3	*
<20 & OR <5	1	9	17	7	*
VSBY ≥5	6	33	41	11	*
≥50 & ≥5	5	25	25	5	*
NC & ≥10	4	22	20	3	*

5552

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	*	0
<5 & OR <2	0	*	1	*	0
VSBY <2	0	*	*	*	0
<10 & OR <2	0	1	6	1	*
<20 & OR <5	*	3	15	3	*
VSBY ≥5	1	31	60	5	*
≥50 & ≥5	1	25	38	2	*
NC & ≥10	1	23	36	2	*

1315

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	*	0
<5 & OR <2	0	*	1	1	0
VSBY <2	0	*	*	*	0
<10 & OR <2	0	1	6	1	0
<20 & OR <5	0	3	15	3	*
VSBY ≥5	*	19	70	9	*
≥50 & ≥5	*	15	49	5	*
NC & ≥10	*	14	46	5	0

1440

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	*	0
<5 & OR <2	*	1	2	*	0
VSBY <2	*	*	1	*	0
<10 & OR <2	*	4	6	1	0
<20 & OR <5	1	11	12	1	*
VSBY ≥5	9	49	36	2	0
≥50 & ≥5	8	35	23	1	0
NC & ≥10	7	32	20	1	0

1397

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	1	0	0
<20 & OR <5	1	7	5	0	0
VSBY ≥5	7	61	30	0	0
≥50 & ≥5	5	52	26	0	0
NC & ≥10	5	52	22	0	0

149

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	2	0
<20 & OR <5	0	10	4	2	0
VSBY ≥5	25	54	19	0	0
≥50 & ≥5	25	38	15	0	0
NC & ≥10	25	35	15	0	0

48

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	2	2	0	0
<20 & OR <5	10	10	6	0	0
VSBY ≥5	17	68	17	0	0
≥50 & ≥5	10	44	8	0	0
NC & ≥10	8	40	8	0	0

48

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	*	1	0
VSBY <2	0	0	*	1	0
<10 & OR <2	0	1	6	3	0
<20 & OR <5	0	1	14	5	0
VSBY ≥5	*	16	67	13	0
≥50 & ≥5	*	14	48	9	0
NC & ≥10	*	13	47	8	0

383

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	1	0
<5 & OR <2	0	1	3	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	1	7	3	0
<20 & OR <5	0	4	20	14	0
VSBY ≥5	0	13	69	28	1
≥50 & ≥5	0	8	30	8	1
NC & ≥10	0	8	26	5	1

156

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	1	2	0
<20 & OR <5	1	2	10	10	0
VSBY ≥5	3	22	60	26	1
≥50 & ≥5	1	16	25	6	1
NC & ≥10	1	15	24	4	1

105

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	8	10	0
<20 & OR <5	0	0	18	13	0
VSBY ≥5	5	33	44	18	0
≥50 & ≥5	5	33	21	5	0
NC & ≥10	5	33	21	5	0

38

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	*	*	0	0
VSBY <2	0	*	0	0	0
<10 & OR <2	0	1	3	*	0
<20 & OR <5	1	4	5	1	0
VSBY ≥5	11	55	28	5	*
≥50 & ≥5	11	48	20	4	*
NC & ≥10	11	48	20	4	*

772

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	3	0
<20 & OR <5	0	7	10	3	0
VSBY ≥5	0	17	60	20	0
≥50 & ≥5	0	10	63	13	0
NC & ≥10	0	10	50	13	0

30

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	5	0	1
<20 & OR <5	1	9	14	1	1
VSBY ≥5	3	40	49	5	2
≥50 & ≥5	2	22	30	1	1
NC & ≥10	2	22	30	0	0

87

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	0	1	0	0
<20 & OR <5	1	3	5	1	0
VSBY ≥5	4	43	49	4	0
≥50 & ≥5	3	32	24	1	0
NC & ≥10	3	30	24	1	0

148

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<5 & OR <2	0	2	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	4	2	0
<20 & OR <5	2	7	9	4	0
VSBY ≥5	3	15	43	7	1
≥50 & ≥5	3	14	43	7	0
NC & ≥10	3	14	43	7	0

197

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	6	0
<20 & OR <5	0	3	16	10	2
VSBY ≥5	2	21	43	29	3
≥50 & ≥5	0	13	27	19	0
NC & ≥10	0	13	27	16	0

63

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	*	*	0	1	*
VSBY <2	0	*	0	*	*
<10 & OR <2	1	3	1	4	2
<20 & OR <5	2	7	8	8	5
VSBY ≥5	3	28	31	27	7
≥50 & ≥5	1	15	18	17	3
NC & ≥10	1	13	17	15	3

278

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	*	0
<5 & OR <2	*	*	1	*	*
VSBY <2	0	0	*	0	0
<10 & OR <2	*	1	3	3	1
<20 & OR <5	1	5	9	5	2
VSBY ≥5	2	24	46	22	8
≥50 & ≥5	1	15	29	14	3
NC & ≥10	1	14	26	12	2

836

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	0	0
<5 & OR <2	0	*	*	0	1
VSBY <2	0	0	*	0	*
<10 & OR <2	1	2	4	2	2
<20 & OR <5	1	9	13	8	4
VSBY ≥5	3	25	41	20	7
≥50 & ≥5	2	15	28	11	3
NC & ≥10	2	15	28	9	2

311

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	11	4	1
<20 & OR <5	1	9	19	9	1
VSBY ≥5	1	30	45	18	4
≥50 & ≥5	1	20	23	10	3
NC & ≥10	1	20	23	9	2

141

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	7	0	0
<20 & OR <5	0	7	29	7	0
VSBY ≥5	0	21	38	29	0
≥50 & ≥5	0	14	14	21	0
NC & ≥10	0	14	14	21	0

14

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	7	1	1
<20 & OR <5	1	14	20	4	4
VSBY ≥5	4	31	42	15	7
≥50 & ≥5	1	11	20	4	3
NC & ≥10	1	11	19	4	3

74

44

INSUFFICIENT DATA

45

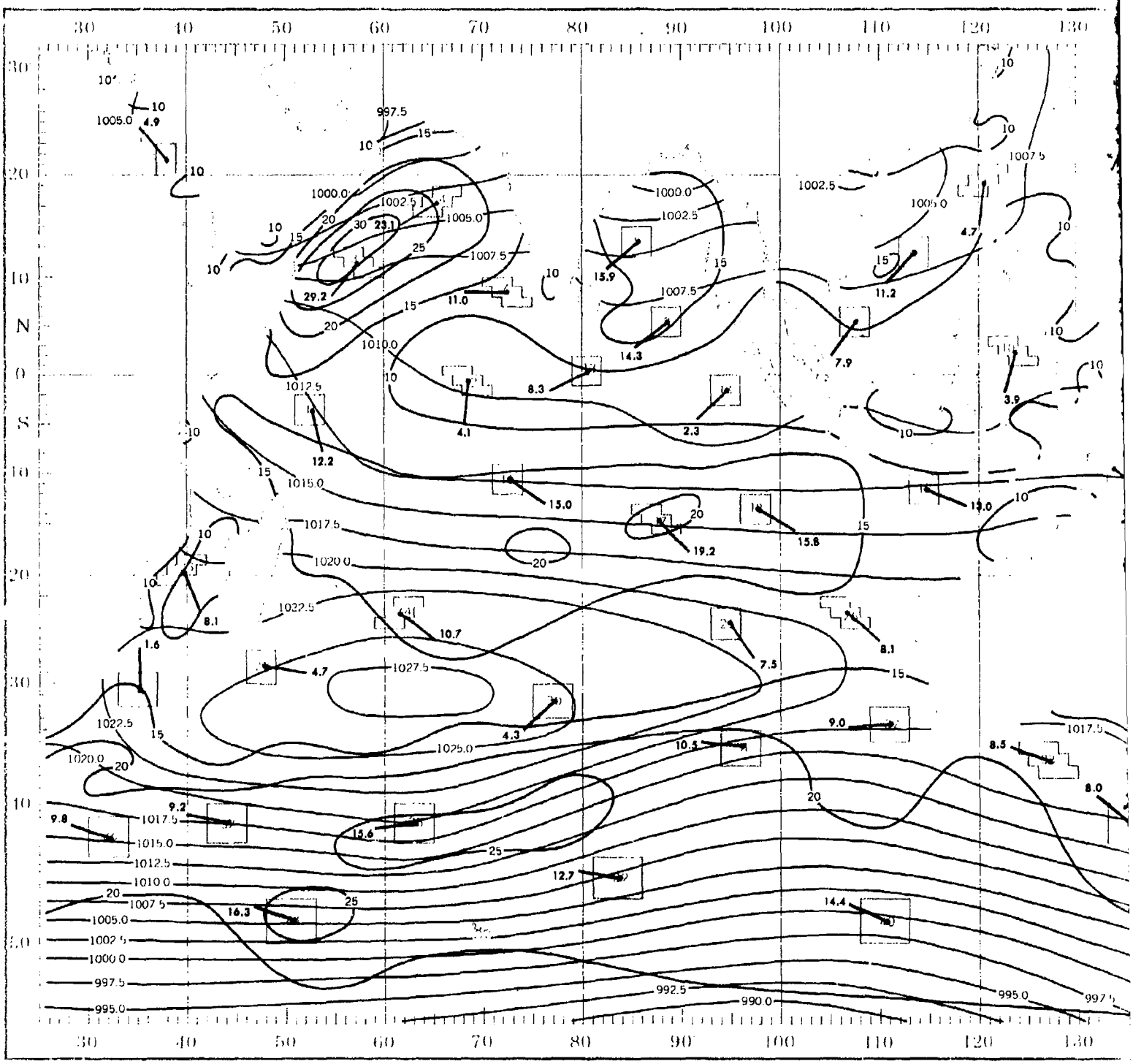
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.

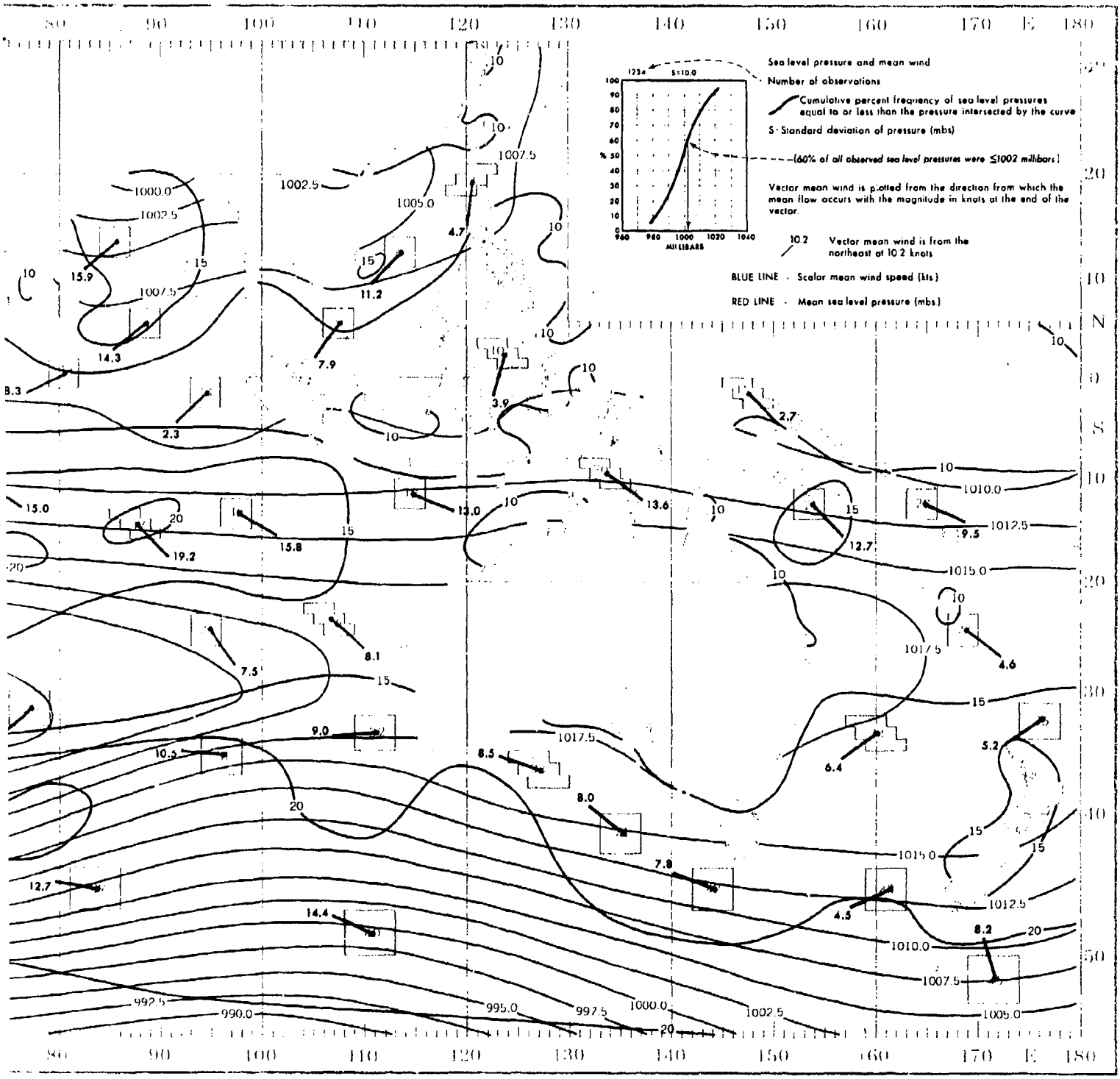
site page) are based on all available data subjectively adjusted where bias was evident.

JULY

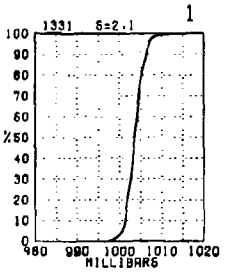
SEA LEVEL PRE

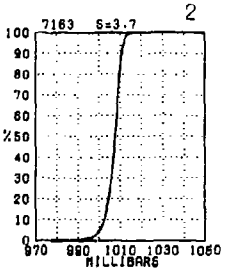


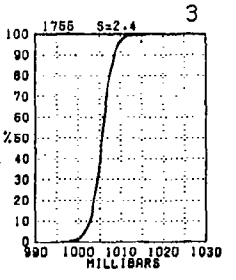
SEA LEVEL PRESSURE AND MEAN WIND

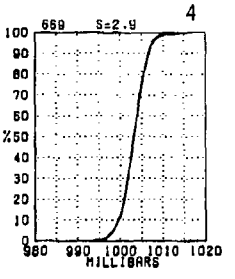


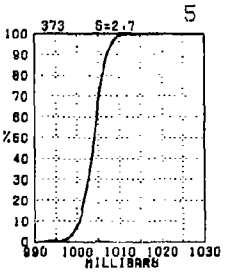
SEA LEVEL PRESSURE

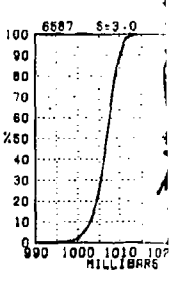


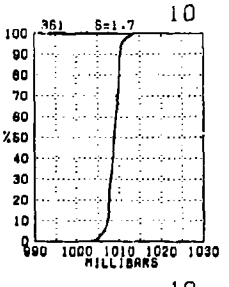


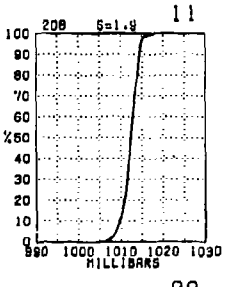


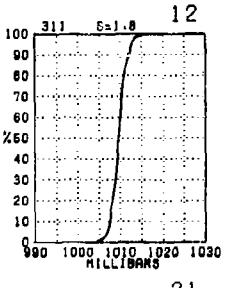


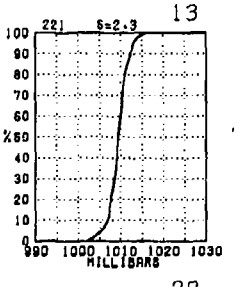


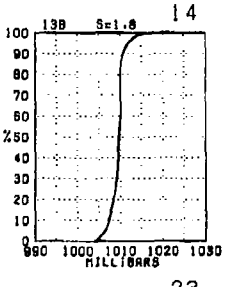


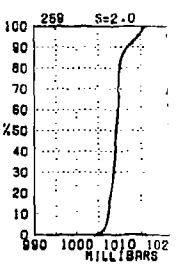


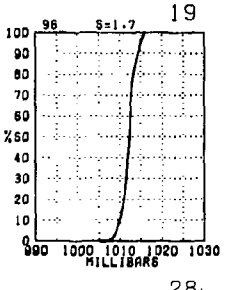


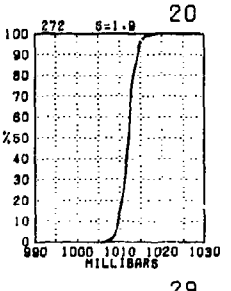


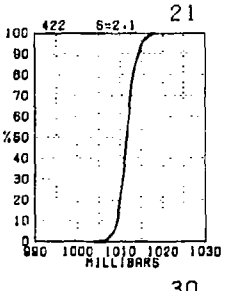


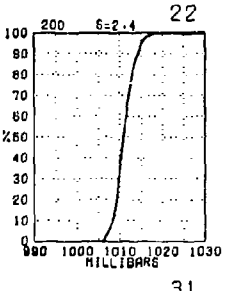


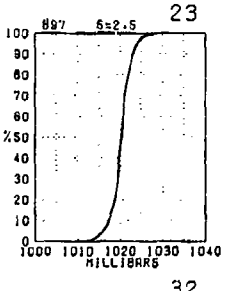


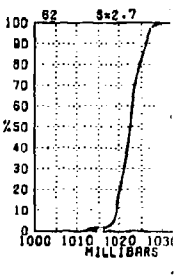


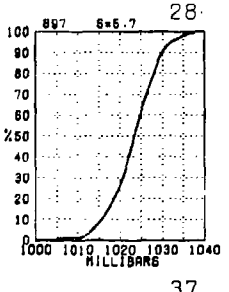


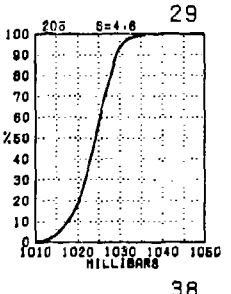


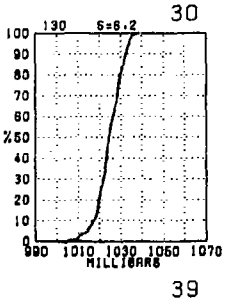


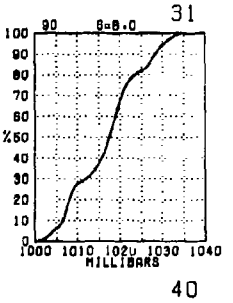


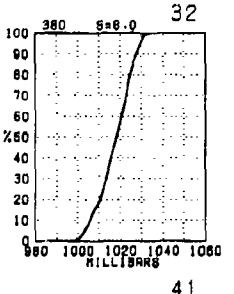


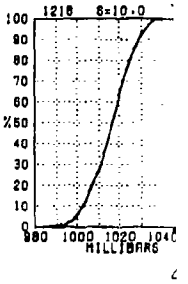


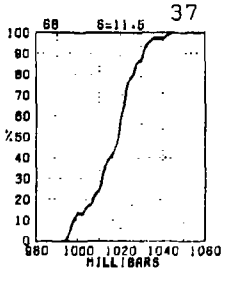


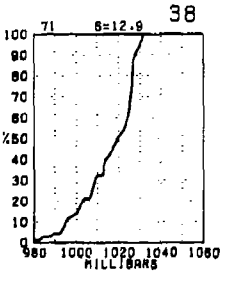












39

INSUFFICIENT DATA

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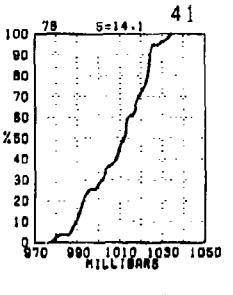
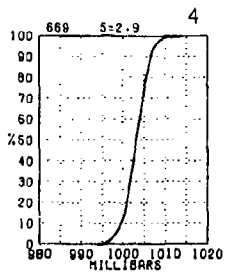
INSUFFICIENT DATA

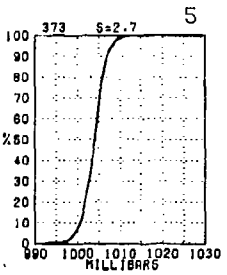


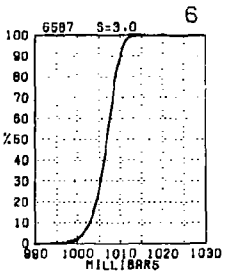
INSUFFICIEN DATA

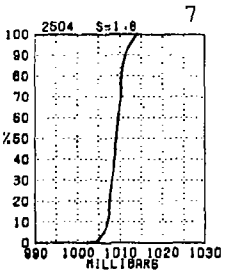
Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively ad

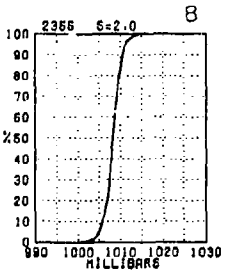
JULY

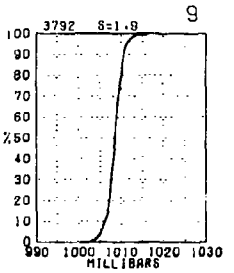


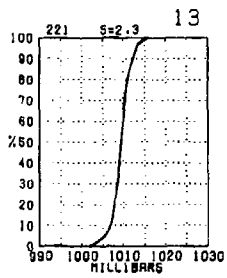


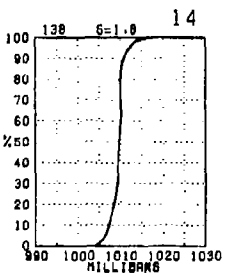


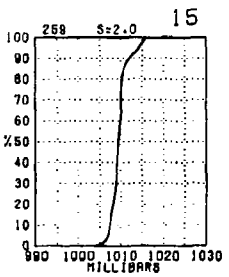


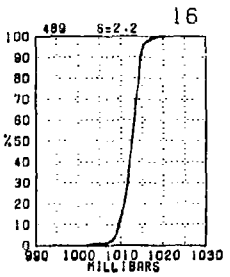


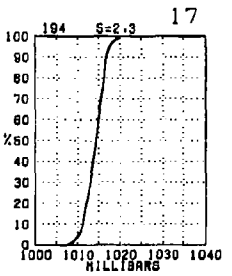


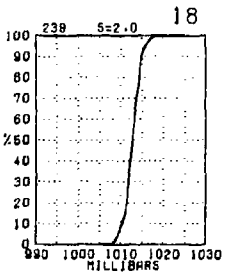


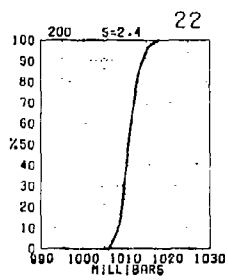


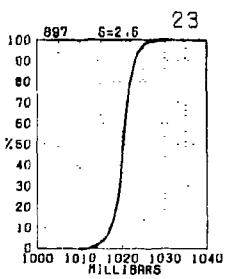


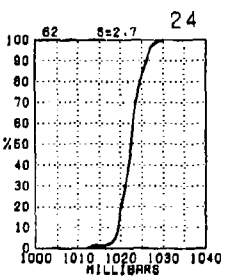


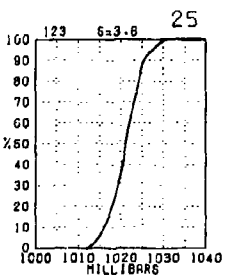


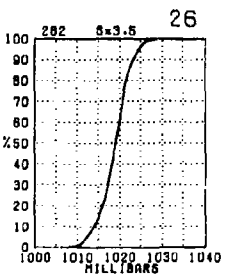


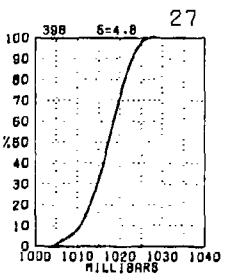


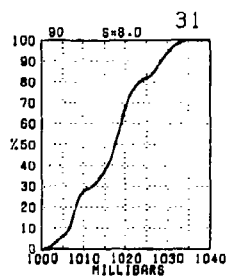


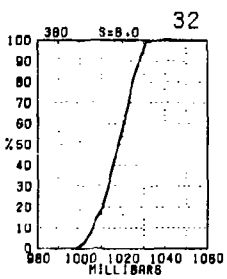


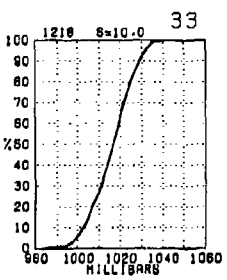


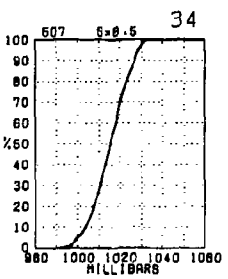


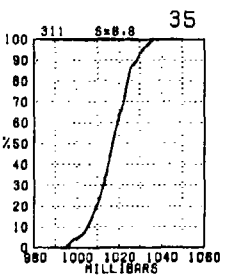


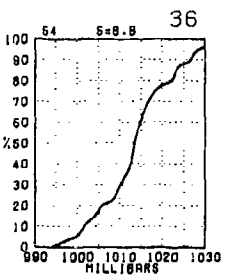












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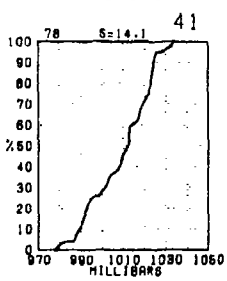
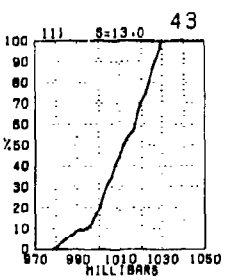
INSUFFICIENT DATA



42

INSUFFICIENT DATA



44

INSUFFICIENT DATA

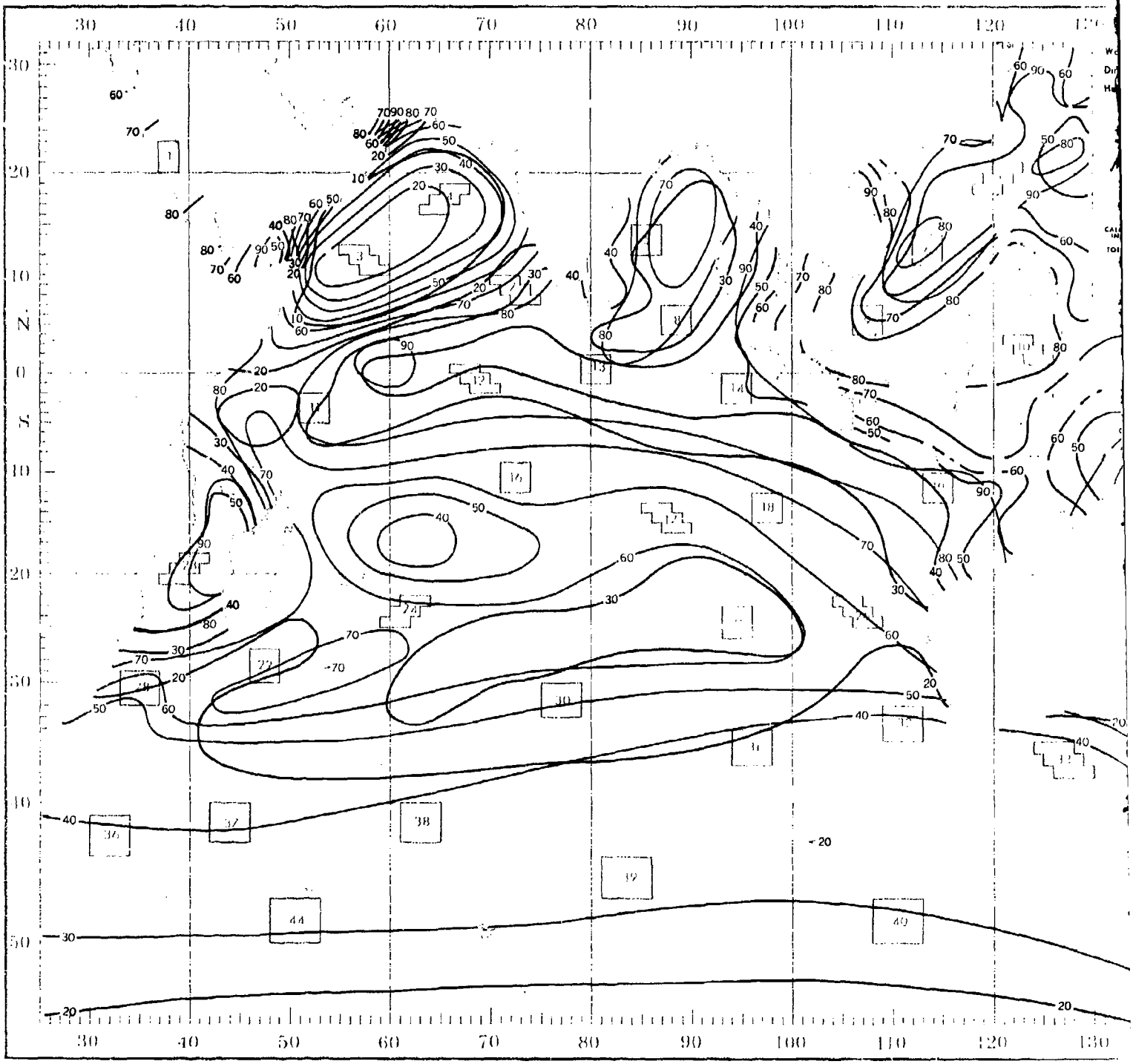
45

INSUFFICIENT DATA

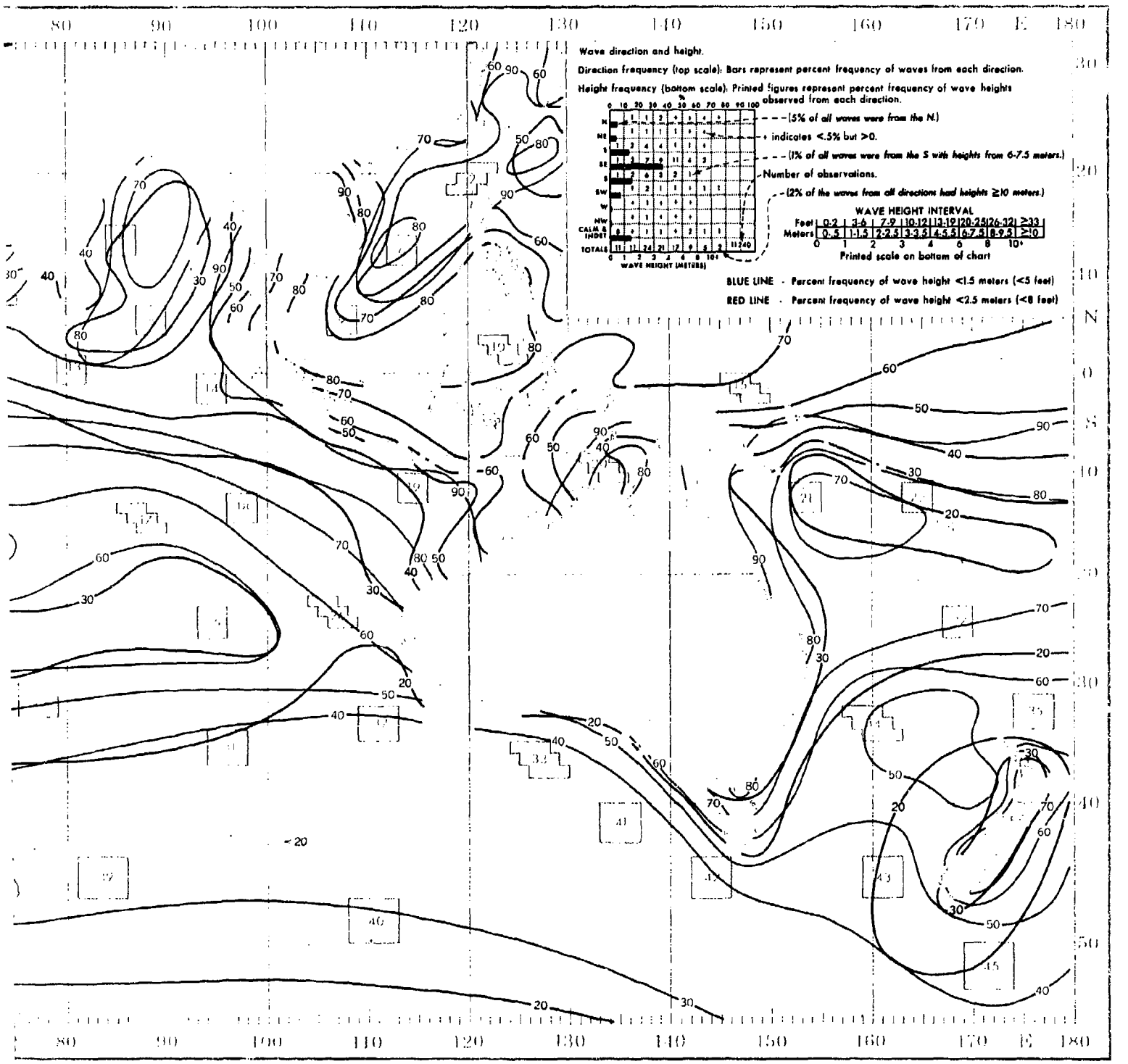
jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

JULY

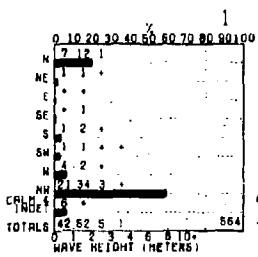
WAVES

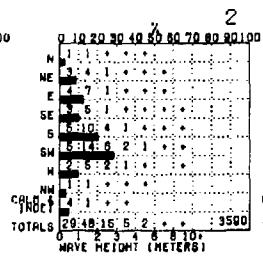


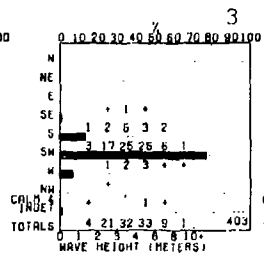
WAVES (<1.5 AND <2.5 METERS)

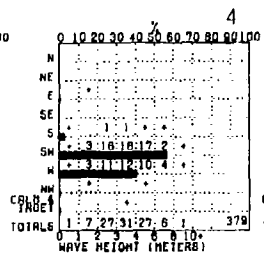


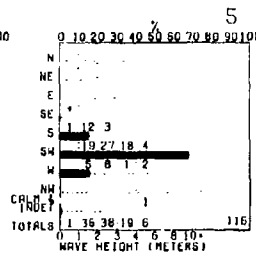
WAVE DIRECTION AND HEIGHT

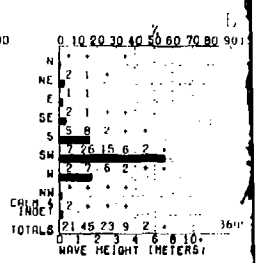


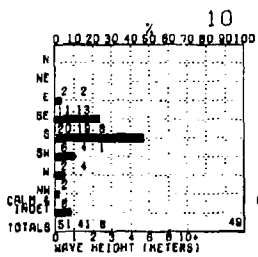


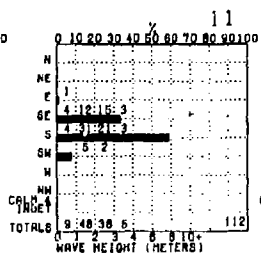


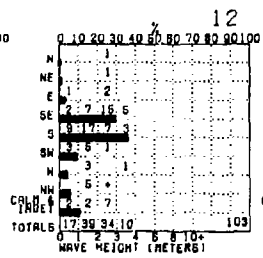


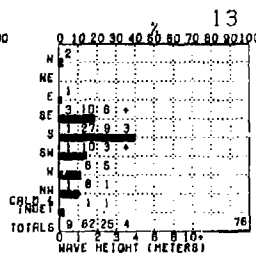






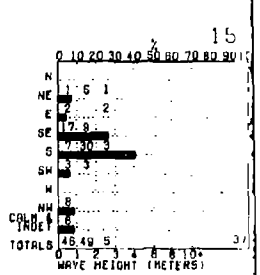


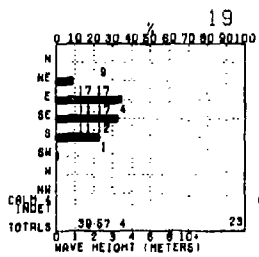


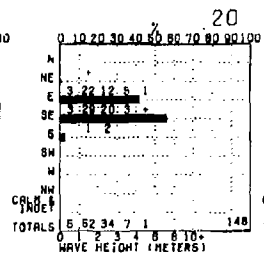


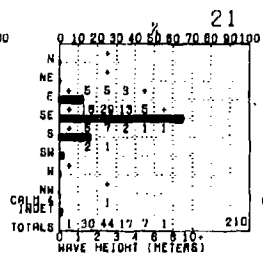
14

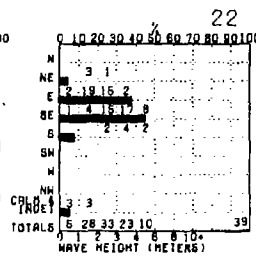
INSUFFICIENT DATA

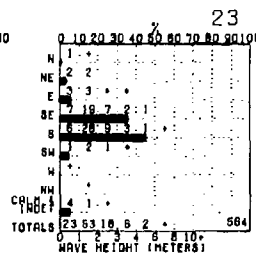


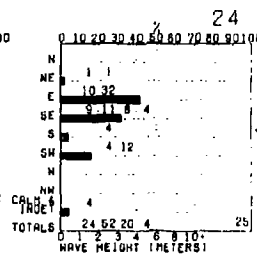


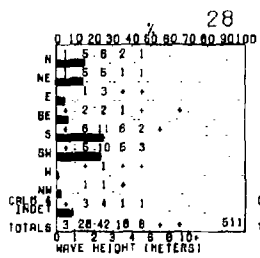


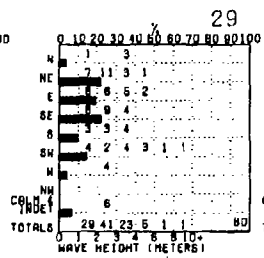


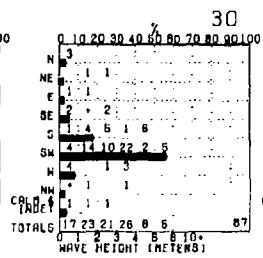


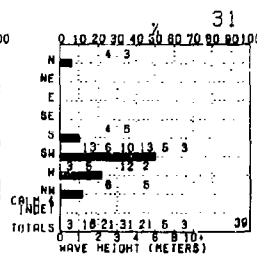


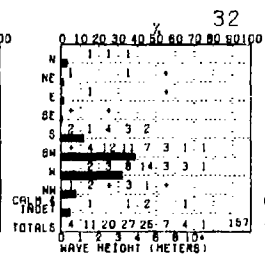


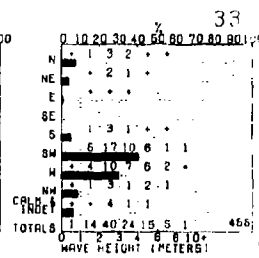












37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

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INSUFFICIENT DATA

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INSUFFICIENT DATA

41

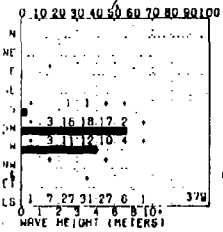
INSUFFICIENT DATA

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without req
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

4



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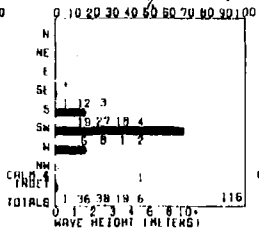

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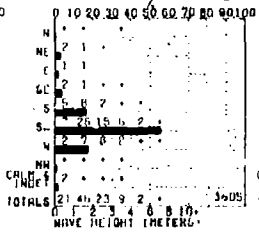

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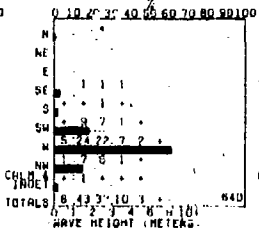

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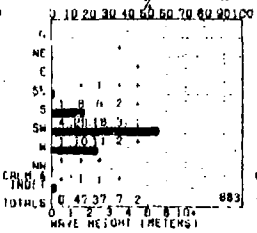

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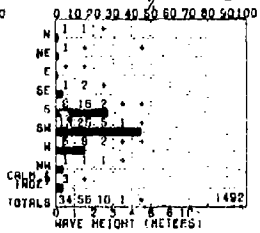

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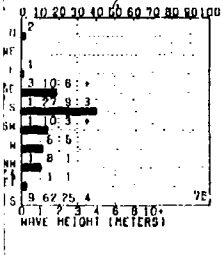
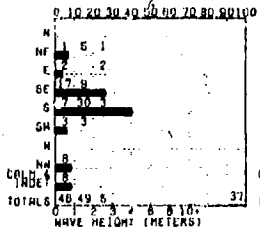


14

INSUFFICIENT DATA

15



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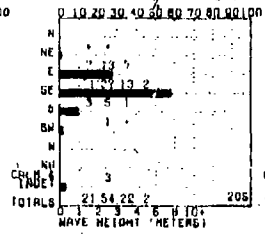

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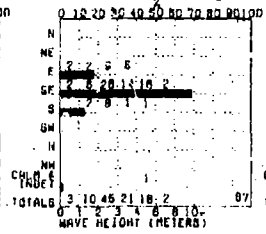

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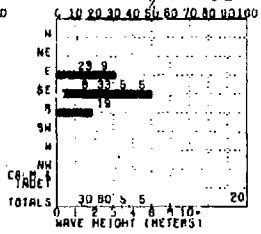

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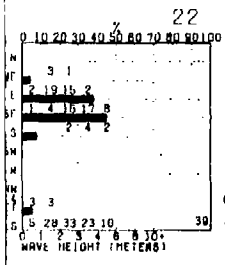

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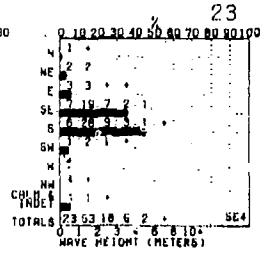

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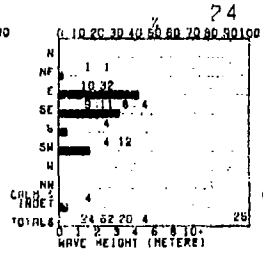

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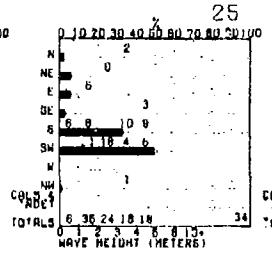

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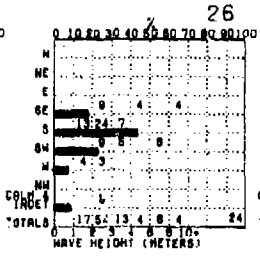

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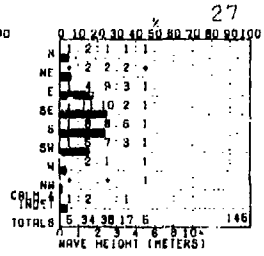

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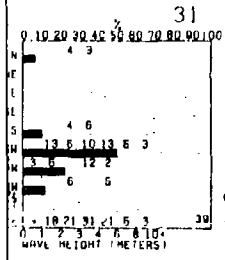

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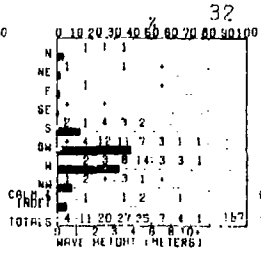

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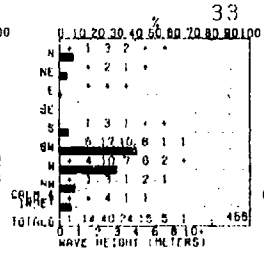

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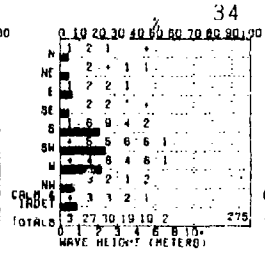

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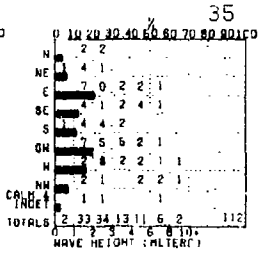

36

INSUFFICIENT DATA

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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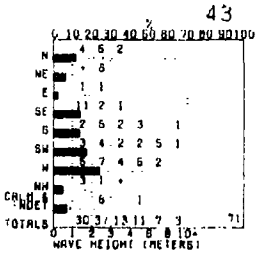


44

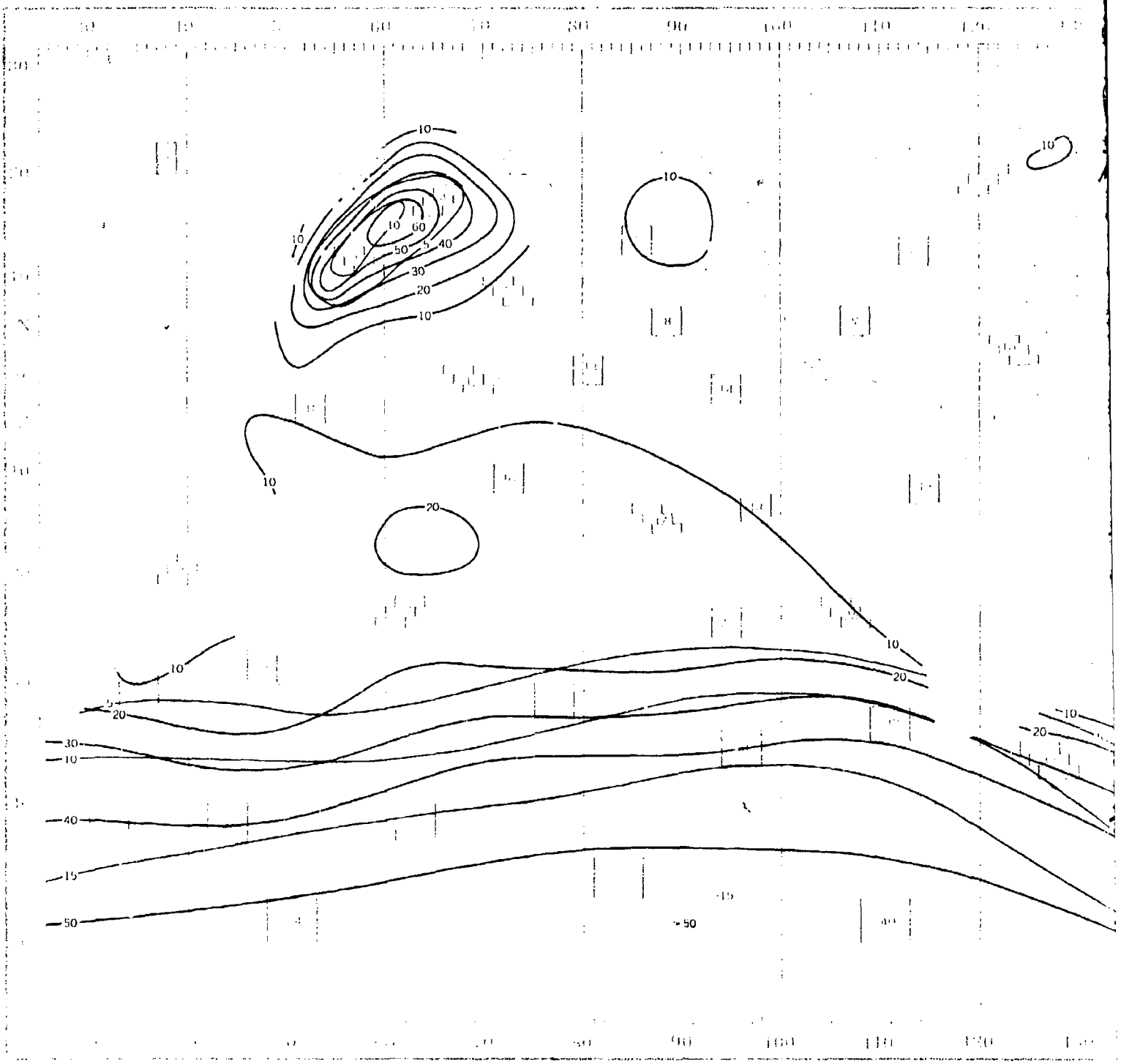
INSUFFICIENT DATA

45

INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

JULY WAVES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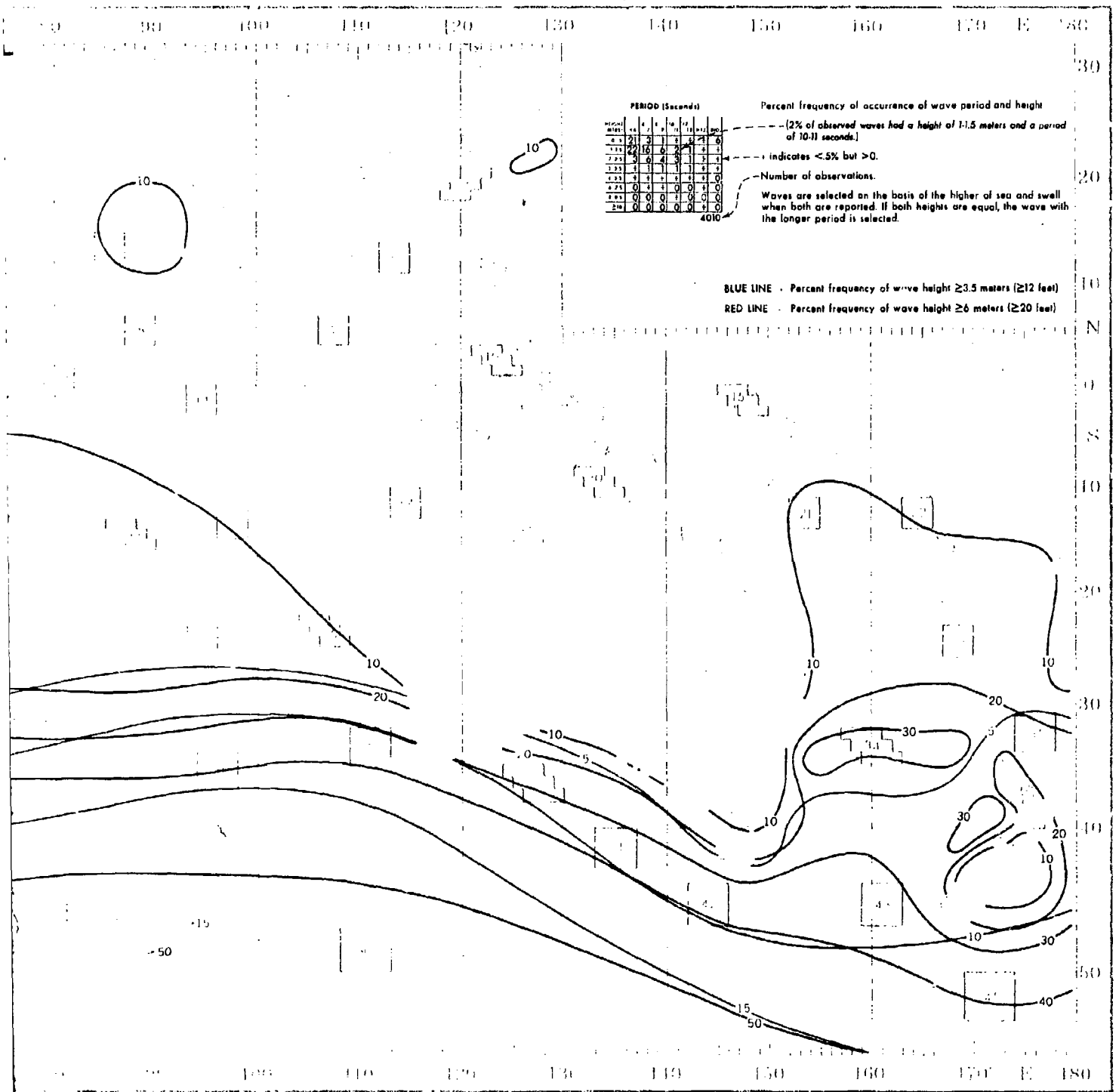
WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	31	2	+	0	0	0	14
1-1.5	27	15	1	+	0	0	5
2-2.5	1	2	1	0	0	0	+
3-3.5	+	0	+	0	0	0	+
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

617

2

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	25	2	1	+	0	0	5
1-1.5	23	17	4	1	+	+	1
2-2.5	2	5	5	2	+	+	+
3-3.5	1	1	1	1	1	+	+
4-4.5	+	+	+	1	+	+	+
5-7.5	0	+	-	+	+	+	0
8-9.5	0	0	+	0	+	0	0
>10	0	0	0	0	0	0	0

3772

3

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	1	1	1	+	+	0	+
2-2.5	2	5	7	3	1	0	2
3-3.5	1	4	12	6	2	2	3
4-4.5	+	3	7	10	2	3	8
5-7.5	0	1	2	1	3	1	1
8-9.5	0	0	1	0	0	+	+
>10	0	0	0	0	0	0	0

403

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	+	0	0	0	0	0
1-1.5	3	2	1	1	+	0	+
2-2.5	4	6	8	4	1	0	2
3-3.5	2	8	9	8	4	1	1
4-4.5	1	5	7	4	4	4	3
5-7.5	0	+	1	2	1	1	1
8-9.5	0	0	1	0	0	0	0
>10	0	0	0	0	0	0	0

379

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	0
1-1.5	9	14	11	0	1	0	1
2-2.5	7	19	6	2	0	0	4
3-3.5	0	4	13	1	0	0	1
4-4.5	0	0	0	3	1	1	2
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

116

PERIOD (SECO

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-
0-1.5	20	2	+	+	
1-1.5	22	16	4	+	+
2-2.5	4	8	7	2	1
3-3.5	1	3	2	1	+
4-4.5	+	1	1	+	+
5-7.5	0	+	+	0	+
8-9.5	0	0	0	0	0
>10	0	0	0	0	0

10

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	38	8	0	0	0	0	8
1-1.5	26	10	4	0	0	0	0
2-2.5	2	6	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

50

11

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	2	0	0	0	0	0
1-1.5	28	13	4	0	1	0	1
2-2.5	12	9	8	4	0	0	4
3-3.5	0	1	1	0	2	2	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

113

12

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	0	0	0	0	0	2
1-1.5	16	16	5	1	0	0	2
2-2.5	1	12	9	3	3	0	7
3-3.5	0	4	1	0	2	0	3
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

103

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	7	1	0	1	0	0	0
1-1.5	13	26	11	7	0	0	4
2-2.5	9	4	11	1	0	0	0
3-3.5	1	0	3	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

76

INSUFFICIENT DATA

PERIOD (SECO

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-
0-1.5	42	0	0	0	0
1-1.5	21	21	5	0	0
2-2.5	0	0	5	0	0
3-3.5	0	0	0	0	0
4-4.5	0	0	0	0	0
5-7.5	0	0	0	0	0
8-9.5	0	0	0	0	0
>10	0	0	0	0	0

19

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	13	17	8	0	0	0	0
2-2.5	9	9	17	22	0	0	0
3-3.5	0	0	4	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

23

20

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	0	0	0	0	0
1-1.5	24	22	5	0	0	0	1
2-2.5	5	11	16	2	0	0	1
3-3.5	3	3	2	0	0	0	0
4-4.5	0	0	1	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

148

21

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	0
1-1.5	7	18	4	0	0	0	1
2-2.5	8	17	15	4	1	0	1
3-3.5	+	5	9	1	0	0	+
4-4.5	0	3	2	1	1	0	0
5-7.5	0	0	+	+	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

210

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	0	0	0	0	3
1-1.5	10	15	0	0	0	0	3
2-2.5	5	15	10	3	0	0	0
3-3.5	0	10	10	3	0	0	0
4-4.5	0	0	5	5	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	1	1	+	0	0	7
1-1.5	25	12	5	3	1	+	8
2-2.5	3	7	8	1	+	1	+
3-3.5	1	1	2	+	1	0	1
4-4.5	+	+	1	+	0	+	+
5-7.5	0	0	0	0	0	0	+
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

580

PERIOD (SECON

HEIGHT (FEET)	<6	6-7	8-9	10-11	12
0-1.5	0	0	0	0	0
1-1.5	8	8	8	0	0
2-2.5	4	24	18	0	0
3-3.5	0	0	8	12	0
4-4.5	0	0	0	0	0
5-7.5	0	0	0	0	0
8-9.5	0	0	0	0	0
>10	0	0	0	0	0

28

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	1
1-1.5	10	7	4	1	0	0	6
2-2.5	5	10	11	5	2	1	8
3-3.5	1	4	4	4	2	1	3
4-4.5	+	2	3	2	+	+	1
5-7.5	0	0	0	+	0	+	0
8-9.5	0	0	+	0	0	0	0
>10	0	0	0	0	0	0	0

513

29

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	6	14	4	0	0	0	6
2-2.5	8	11	14	1	1	0	8
3-3.5	4	3	10	4	3	0	0
4-4.5	0	1	0	3	0	1	0
5-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	1	0	0	0
>10	0	0	0	0	0	0	0

80

30

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	17
1-1.5	8	1	7	1	0	0	6
2-2.5	2	5	6	1	1	0	6
3-3.5	0	1	6	10	3	2	3
4-4.5	0	0	1	3	3	0	0
5-7.5	0	0	0	1	1	2	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

88

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	0	0	0	0	0	0
1-1.5	3	10	0	5	0	0	0
2-2.5	5	5	0	8	3	0	0
3-3.5	0	10	5	3	3	8	3
4-4.5	0	0	5	8	3	5	0
5-7.5	0	0	0	3	3	0	0
8-9.5	0	0	0	0	3	0	0
>10	0	0	0	0	0	0	0

39

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	1
1-1.5	1	3	3	1	2	0	1
2-2.5	1	4	8	4	1	1	2
3-3.5	1	3	6	6	8	1	2
4-4.5	0	3	4	8	6	2	3
5-7.5	0	1	1	2	2	1	0
8-9.5	0	0	0	1	1	2	0
>10	0	0	0	1	1	0	0

158

PERIOD (SECON

HEIGHT (FEET)	<6	6-7	8-9	10-11	12
0-1.5	1	0	0	0	0
1-1.5	3	4	3	1	+
2-2.5	2	8	16	7	2
3-3.5	1	4	7	7	2
4-4.5	1	2	3	3	3
5-7.5	0	+	1	1	2
8-9.5	0	+	0	+	+
>10	0	0	0	0	0

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Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively ad

JULY

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	+	0	0	0	0	0
1-1.5	3	2	1	1	+	0	+
2-2.5	4	8	8	4	1	0	2
3-3.5	2	8	9	6	4	1	1
4-4.5	1	5	7	4	4	4	3
5-7.5	0	+	1	2	1	1	1
8-9.5	0	0	1	0	0	0	0
>10	0	0	0	0	0	0	0

379

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	0	0	0	0	0
1-1.5	0	14	11	0	1	0	1
2-2.5	7	19	6	2	0	0	4
3-3.5	0	4	13	1	0	0	1
4-4.5	0	0	0	3	1	1	2
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

116

6

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	2	+	+	0	0	2
1-1.5	22	16	4	+	+	+	+
2-2.5	4	8	7	2	1	+	+
3-3.5	1	3	2	1	+	+	+
4-4.5	+	1	1	+	+	+	0
5-7.5	0	+	+	0	+	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3767

7

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	+	+	0	0	0	3
1-1.5	12	17	8	1	1	0	4
2-2.5	4	11	12	6	1	+	3
3-3.5	+	2	3	3	+	1	1
4-4.5	+	+	1	+	+	+	+
5-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

843

8

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	+	-	0	0	1
1-1.5	18	19	5	2	1	+	2
2-2.5	8	12	11	3	1	+	2
3-3.5	+	2	2	+	1	0	1
4-5.5	+	0	1	1	+	0	+
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

885

9

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	30	1	+	+	0	0	8
1-1.5	31	15	3	0	1	0	2
2-2.5	2	5	2	1	+	+	+
3-3.5	+	1	+	0	0	0	0
4-5.5	+	+	+	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1584

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	1	0	1	0	0	0
1-1.5	13	28	11	7	0	0	4
2-2.5	8	4	11	1	0	0	0
3-3.5	1	0	3	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

78

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	42	0	0	0	0	0	5
1-1.5	21	21	5	0	0	0	0
2-2.5	0	0	5	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

38

16

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	6	5	6	1	0	0	2
2-2.5	1	14	20	12	2	0	5
3-3.5	0	4	8	6	3	+	+
4-4.5	0	+	+	1	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

205

17

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	3
1-1.5	5	2	2	0	0	0	1
2-2.5	1	8	22	8	7	1	0
3-3.5	0	5	5	10	1	0	0
4-5.5	0	1	7	7	1	1	1
5-7.5	0	0	1	1	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

87

18

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	5	0	0	0	0	25
2-2.5	0	10	10	5	0	5	30
3-3.5	0	5	0	0	0	0	0
4-5.5	0	0	0	5	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

20

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	0	0	0	0	3
1-1.5	10	15	0	0	0	0	3
2-2.5	5	15	10	3	0	0	0
3-3.5	0	10	10	3	0	0	0
4-5.5	0	0	5	5	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	16	1	1	+	0	0	7
1-1.5	25	12	5	3	1	+	6
2-2.5	3	7	5	1	+	1	+
3-3.5	1	1	2	+	1	0	1
4-5.5	+	+	1	+	0	+	+
6-7.5	0	0	0	0	0	0	+
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

580

24

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	8	8	8	0	0	0	0
2-2.5	4	24	16	0	0	0	8
3-3.5	0	0	8	12	0	0	0
4-5.5	0	0	0	0	0	4	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

25

25

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	3	0	0	0	0	0
1-1.5	0	21	12	3	0	0	0
2-2.5	0	0	15	9	0	0	0
3-3.5	0	0	12	3	3	0	0
4-5.5	0	0	6	3	3	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

34

26

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	0	8	0	4	0	0	4
2-2.5	4	12	4	8	0	16	8
3-3.5	0	0	0	4	0	8	0
4-5.5	0	0	0	0	0	4	0
6-7.5	0	0	0	8	0	0	0
8-9.5	0	0	0	0	0	4	0
>10	0	0	0	0	0	0	0

25

27

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	1	0	0	0	2
1-1.5	10	10	7	2	1	0	3
2-2.5	5	7	19	5	0	0	1
3-3.5	1	3	6	4	2	0	1
4-5.5	0	1	1	1	0	0	1
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

151

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	0
1-1.5	3	10	0	5	0	0	0
2-2.5	5	5	0	8	3	0	0
3-3.5	0	10	5	3	3	9	3
4-5.5	0	0	5	8	3	5	0
6-7.5	0	0	0	3	3	0	0
8-9.5	0	0	0	0	3	0	0
>10	0	0	0	0	0	0	0

30

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	1
1-1.5	1	3	3	1	2	0	1
2-2.5	1	4	8	4	1	1	2
3-3.5	1	3	6	6	8	1	2
4-5.5	0	3	4	8	6	2	3
6-7.5	0	1	1	2	2	1	0
8-9.5	0	0	0	1	1	2	0
>10	0	0	0	1	1	0	0

158

33

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	0	0	0	0	+
1-1.5	3	4	3	1	+	+	2
2-2.5	2	8	18	7	2	+	4
3-3.5	1	4	7	7	2	1	2
4-5.5	1	2	3	3	3	3	1
6-7.5	0	+	1	1	2	1	0
8-9.5	0	+	0	+	+	0	0
>10	0	0	0	0	0	0	0

458

34

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	1	0	0	0	0	+
1-1.5	8	12	4	1	+	+	1
2-2.5	2	14	8	3	1	0	2
3-3.5	1	4	6	6	1	1	3
4-5.5	+	9	4	3	1	1	+
6-7.5	0	0	1	+	0	+	+
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

278

35

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	1	0	0	0	0
1-1.5	14	13	4	1	0	0	1
2-2.5	1	14	13	2	0	1	3
3-3.5	0	3	3	8	0	0	1
4-5.5	0	2	4	2	0	1	0
6-7.5	0	3	0	2	2	0	0
8-9.5	0	0	0	0	2	0	0
>10	0	0	0	0	0	0	0

112

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	7	20	0	3	0	0	0
2-2.5	8	13	11	8	0	0	1
3-3.5	1	1	4	1	1	3	0
4-5.5	0	1	1	6	1	0	1
6-7.5	0	0	4	3	0	0	0
8-9.5	0	0	0	0	3	0	0
>10	0	0	0	0	0	0	0

71

44

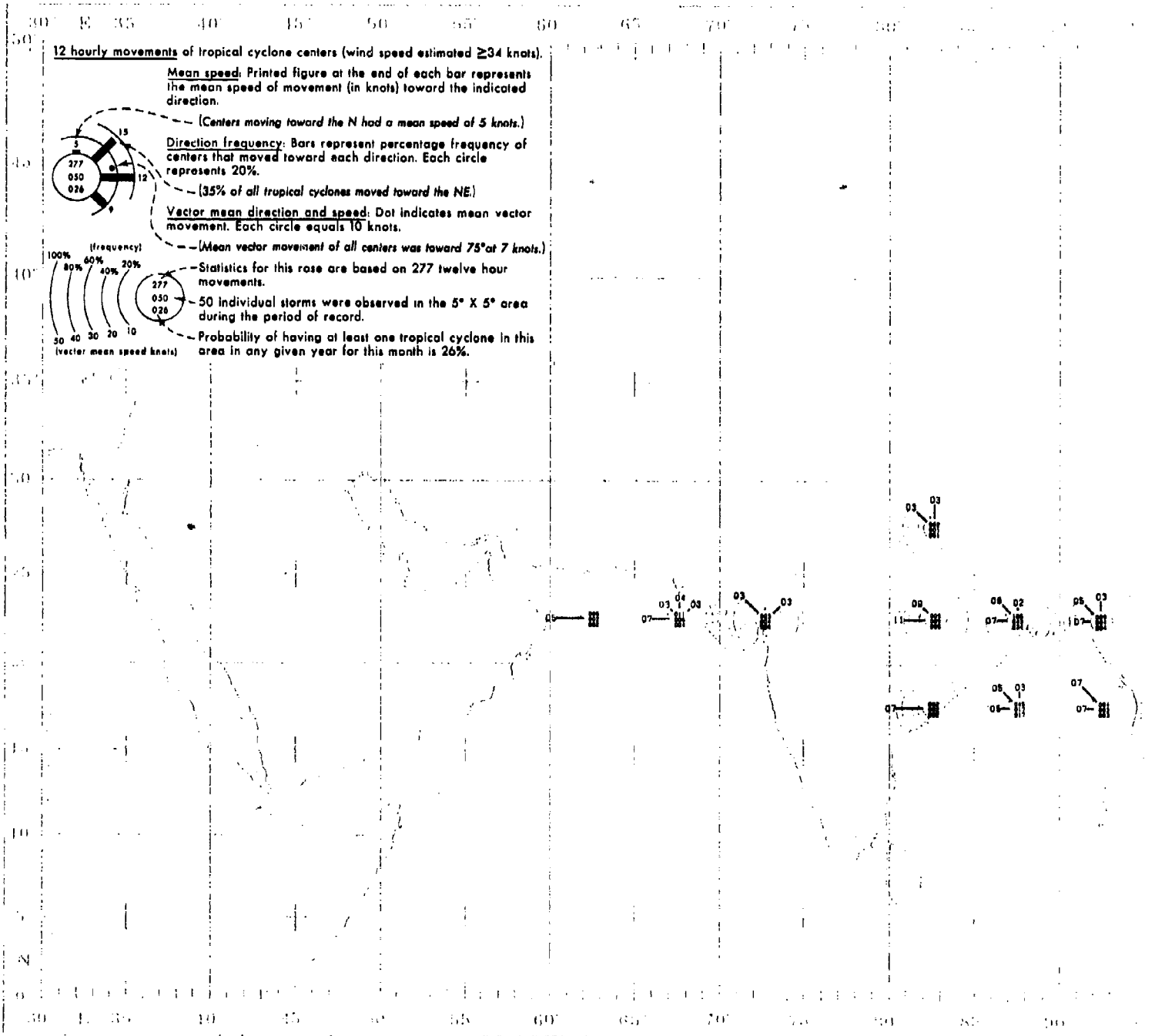
INSUFFICIENT DATA

45

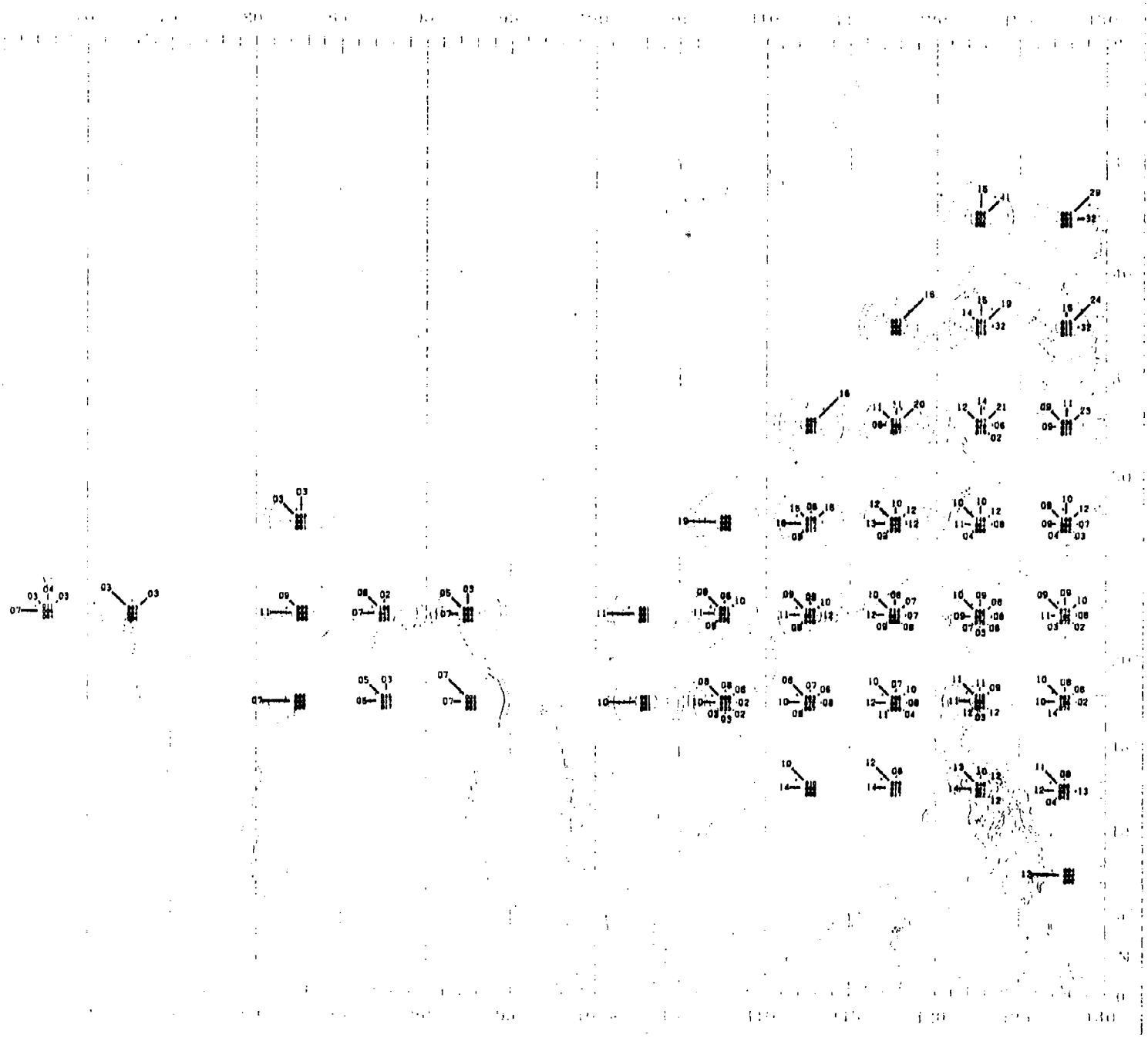
INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

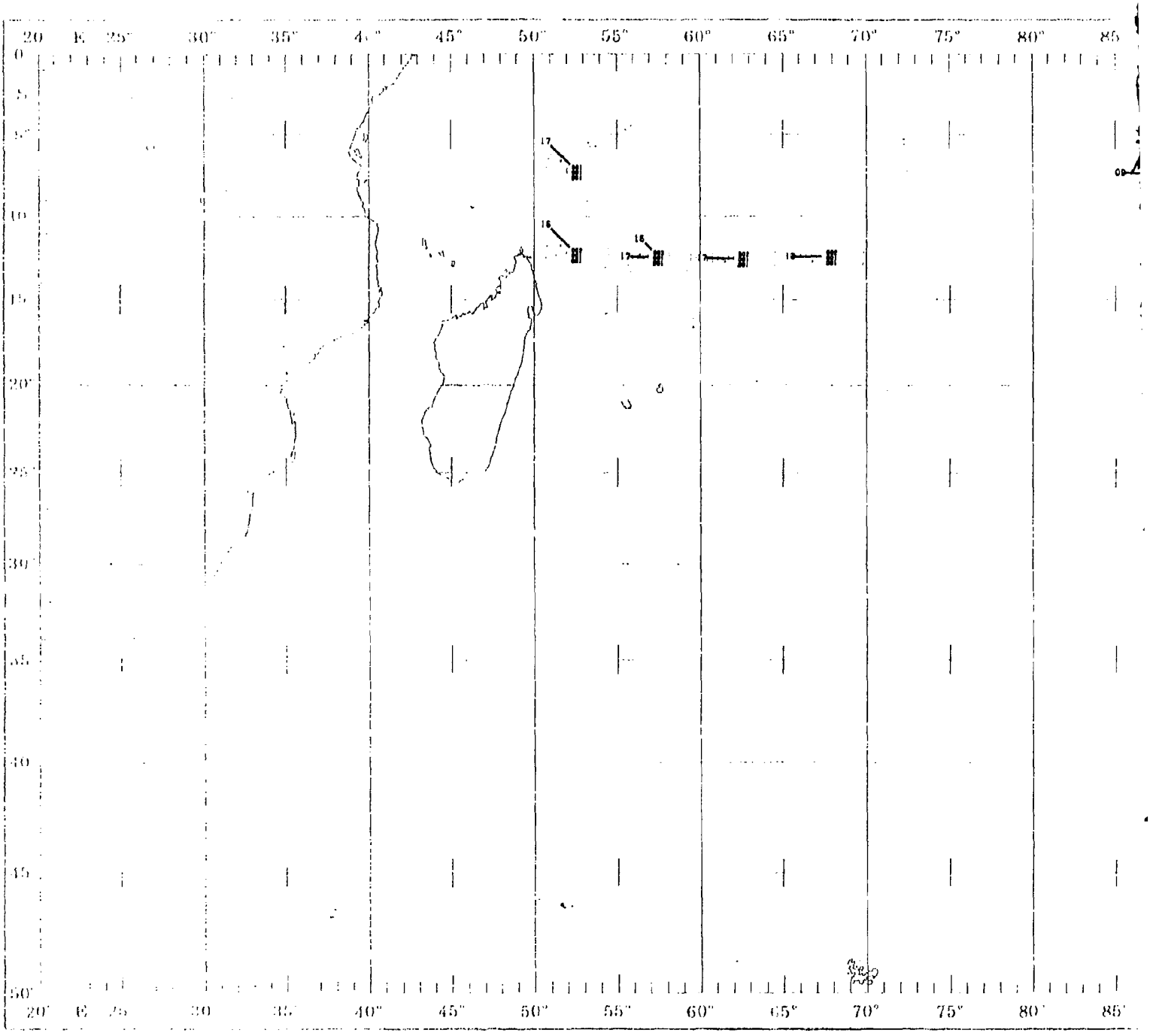
JULY


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
(frequency)
100%
80%
60%
40%
20%
277
050
026
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

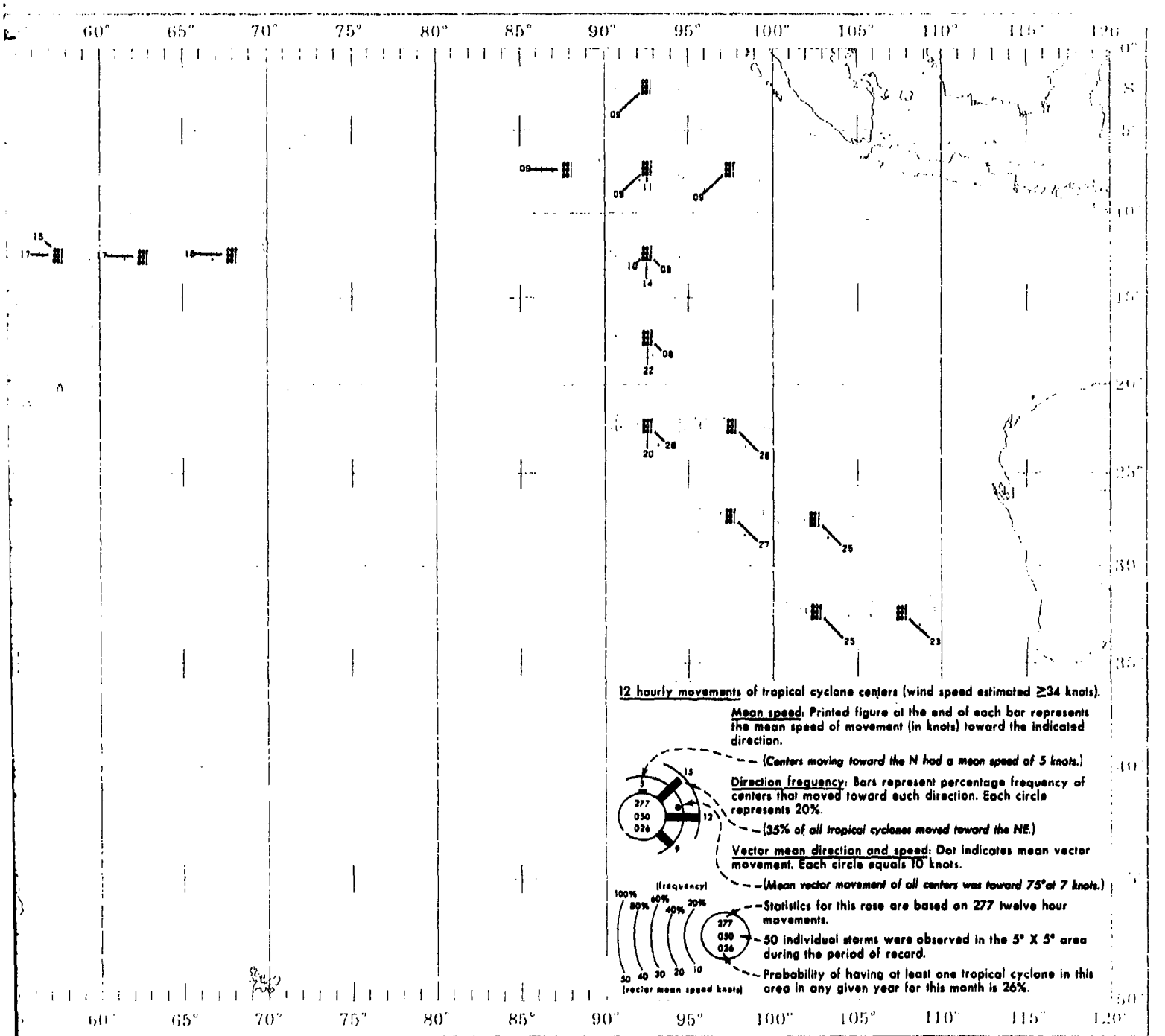
TROPICAL CYCLONE



TROPICAL CYCLONE



JULY


60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0° 5° 10° 15° 20° 25° 30° 35° 40° 50°
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
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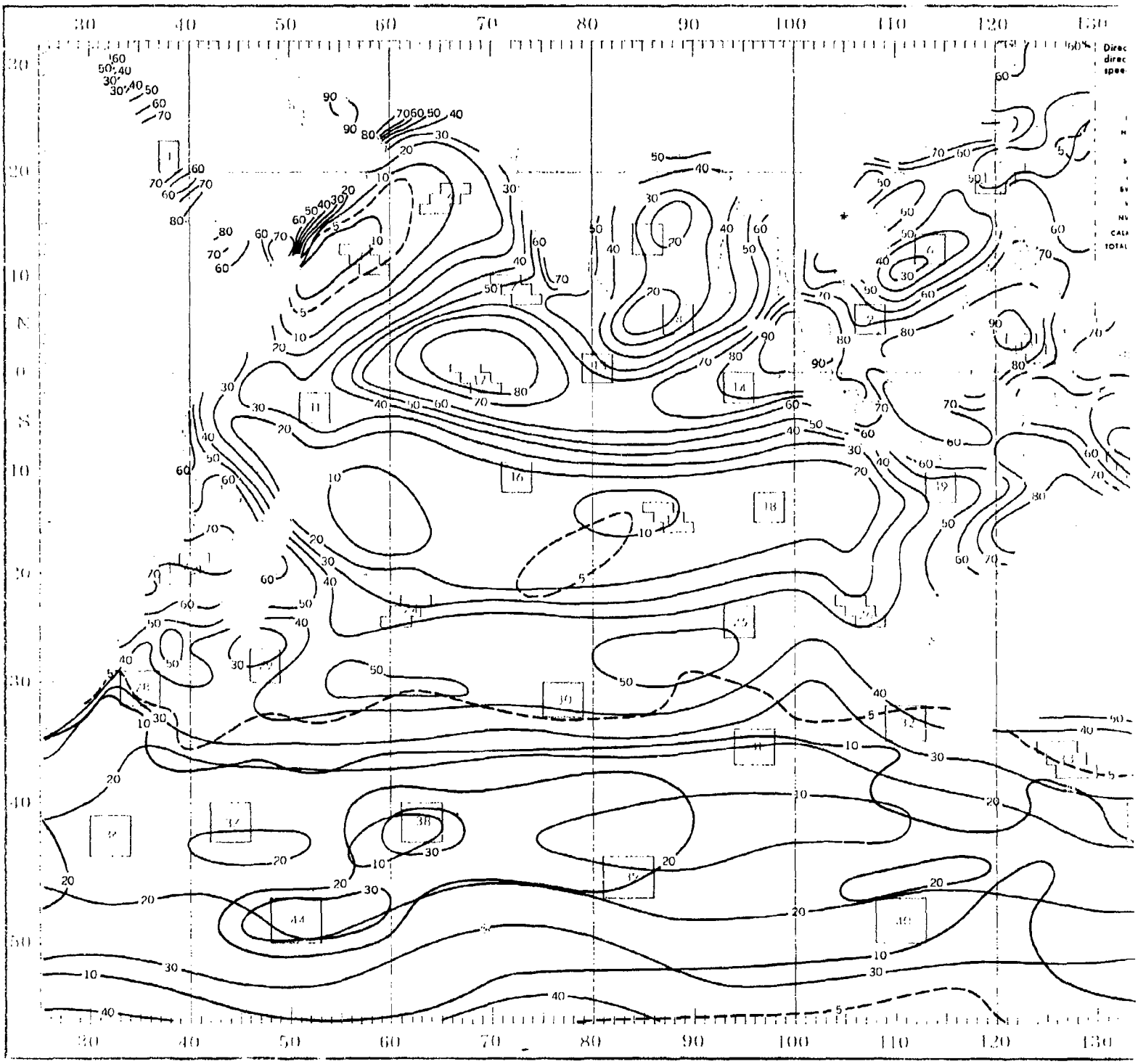
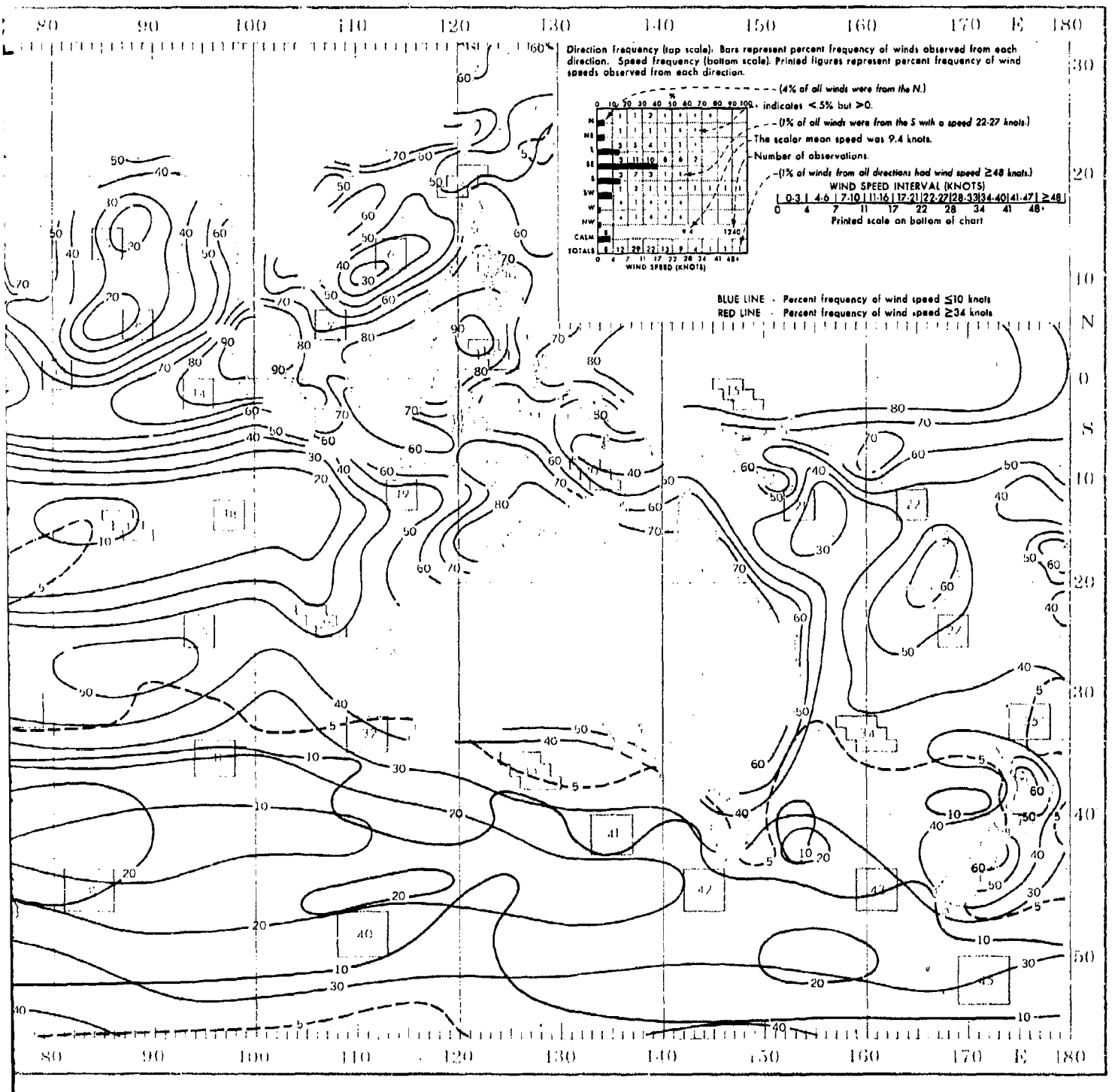
277
050
026
(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

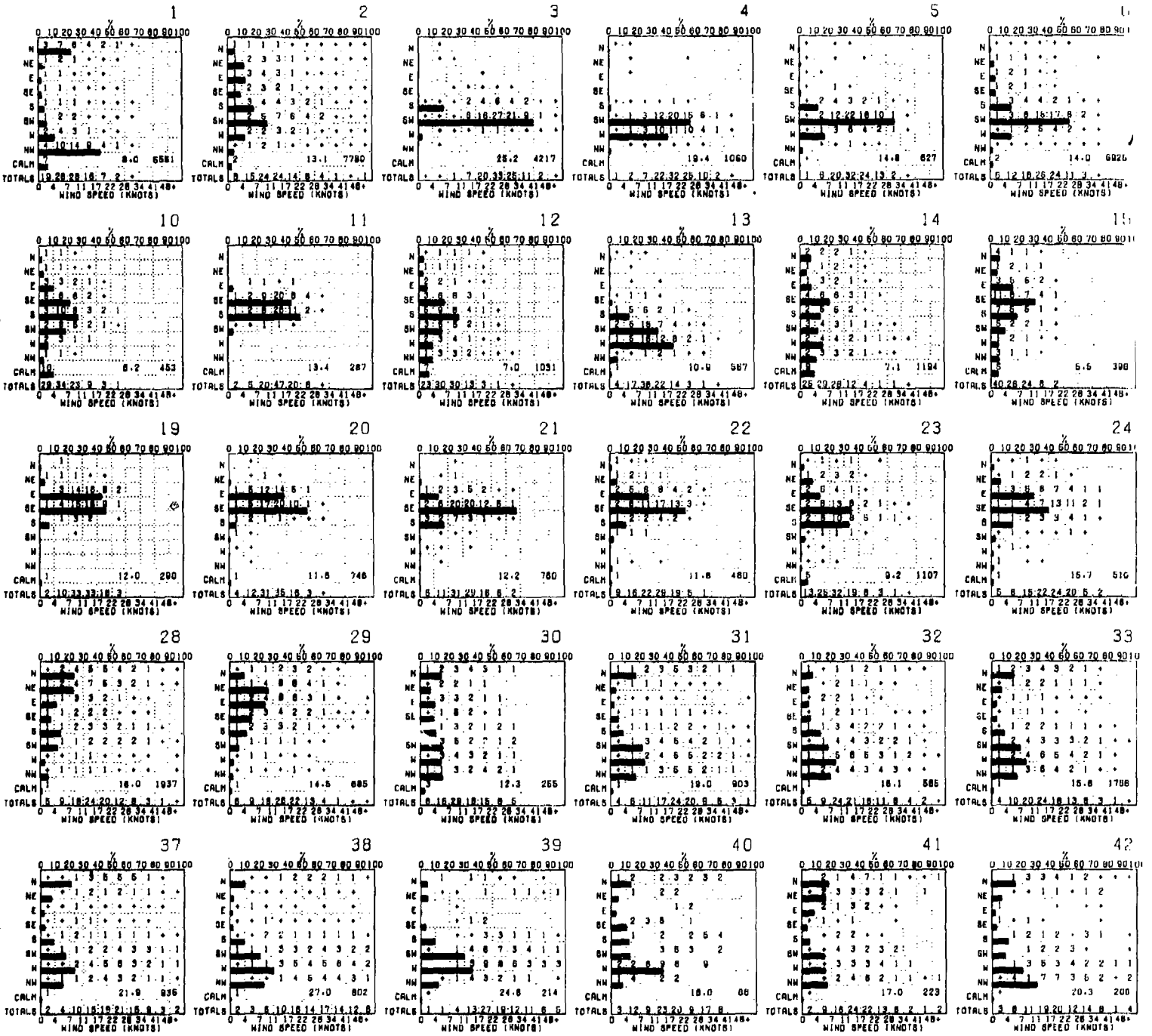
AUGUST



SURFACE WINDS

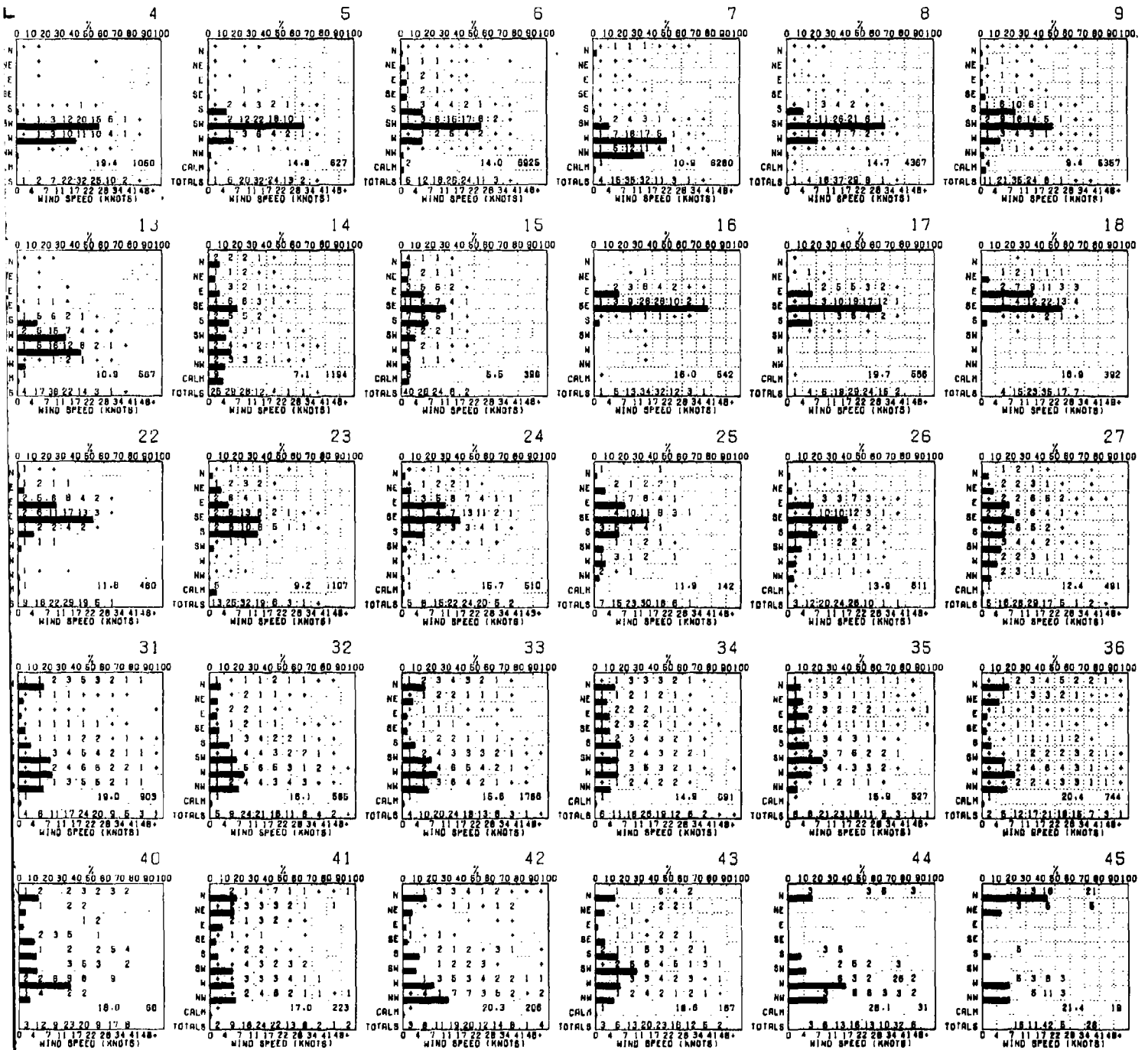


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

AUGUST



ve compilation of available data for specified areas without regard to suspected biases.

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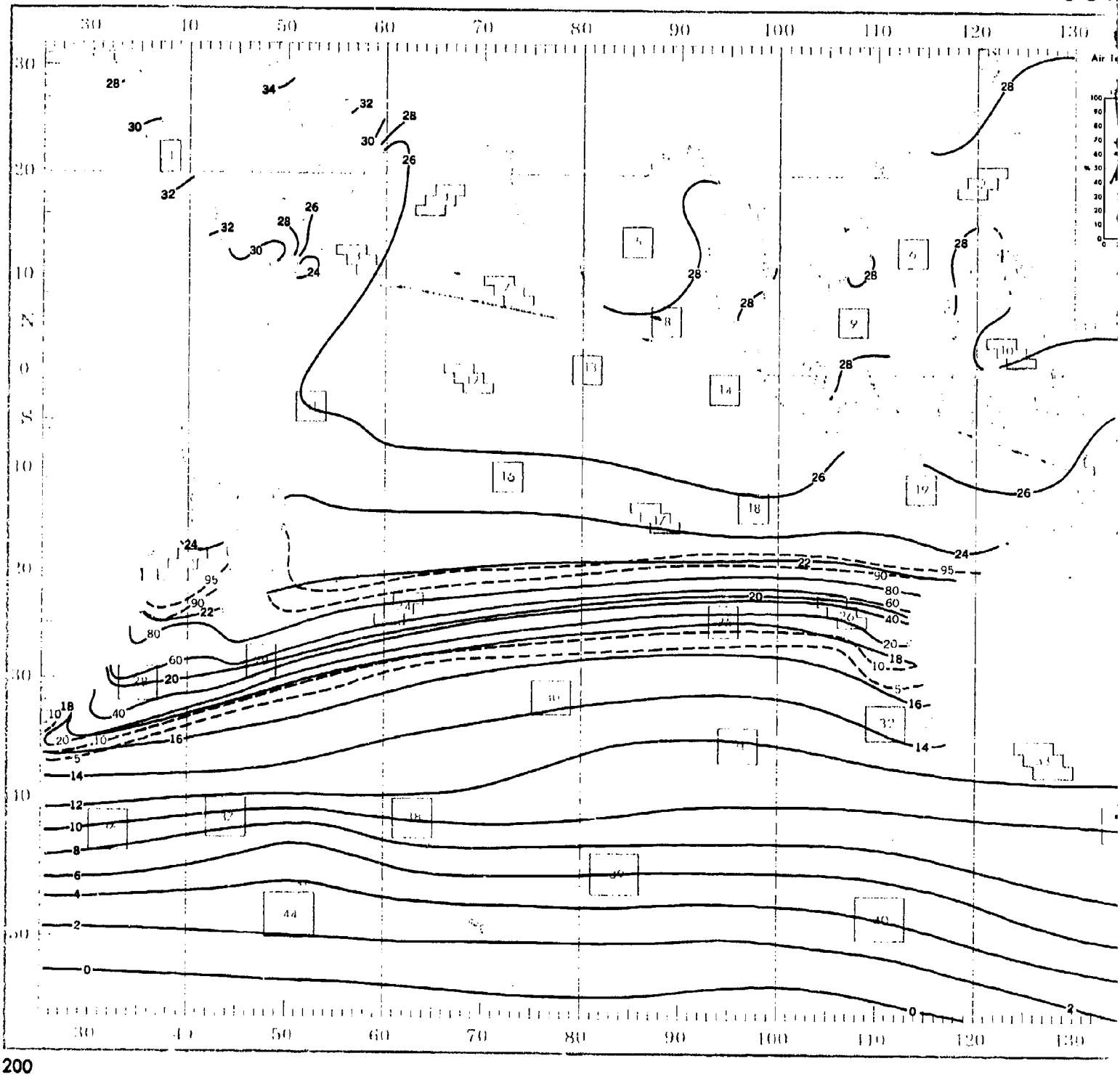
AUGUST


30
10
50
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90
100
110
120
130
30
20
10
0
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30
50
28
34
32
30
26
24
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16
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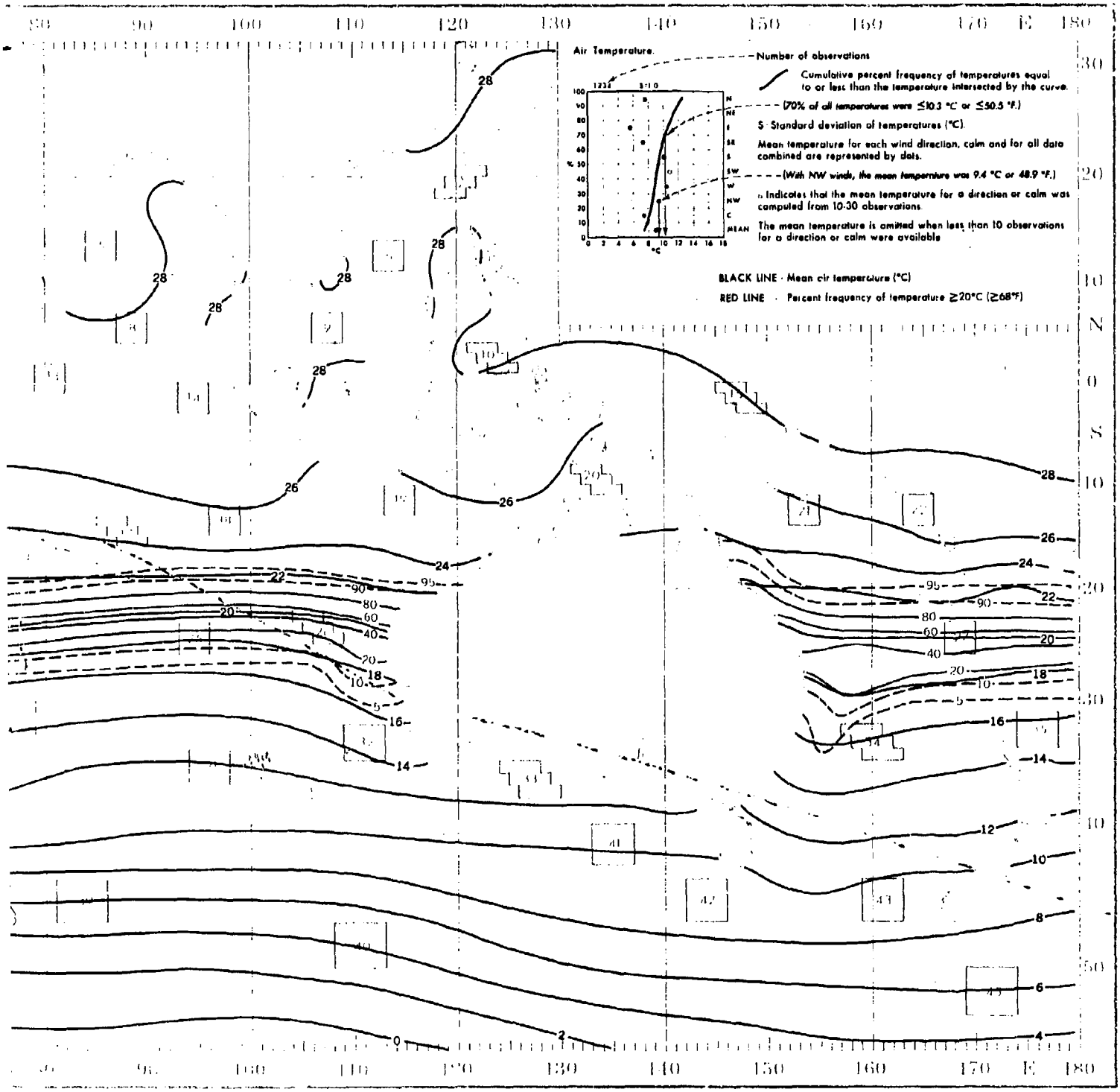
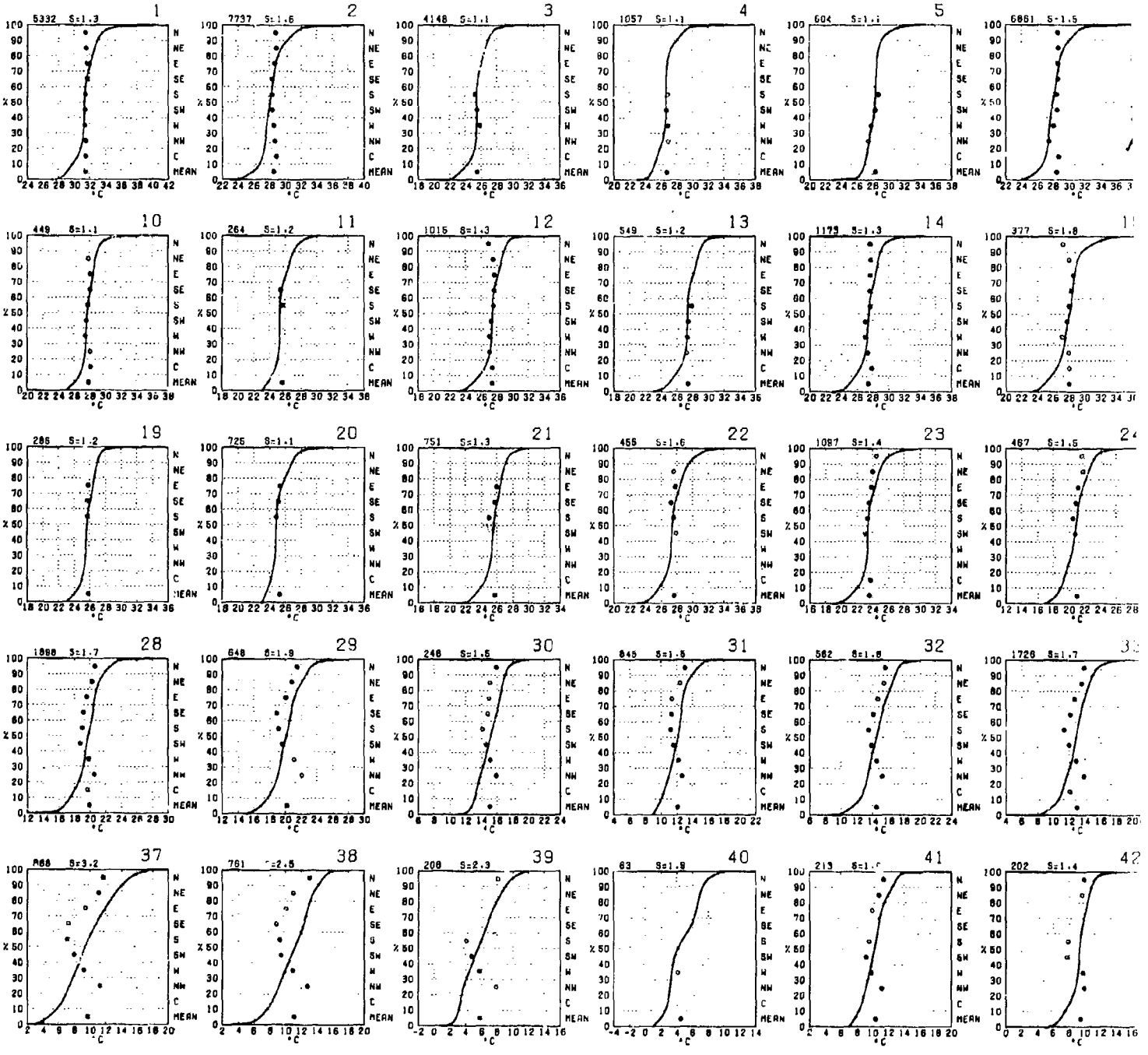
12
10
8
6
4
2
0

SURFACE AIR TEMPERATURE

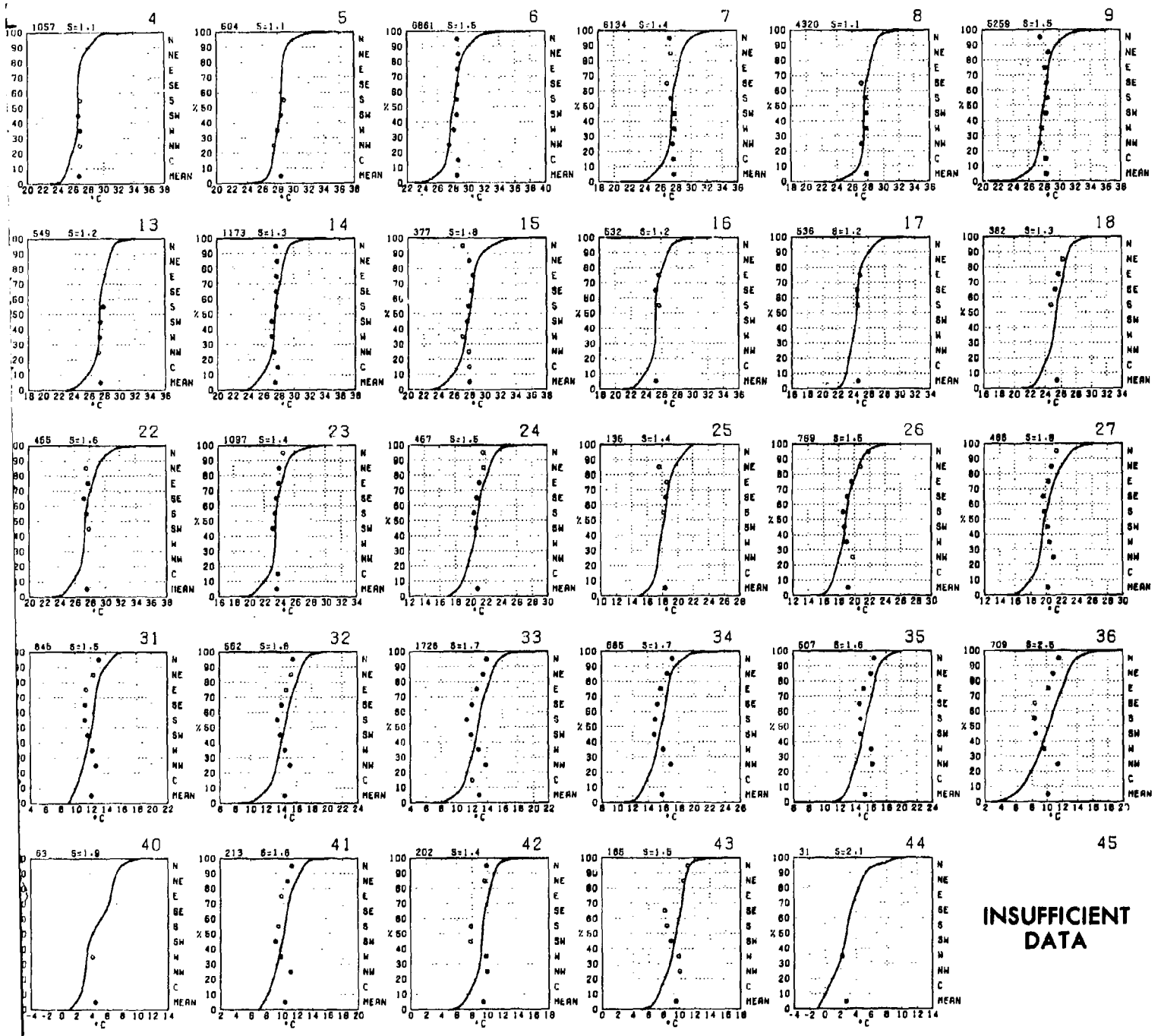


SURFACE AIR TEMPERATURE



Graphs represent the objective compilation of available data for specified areas withou
The **isopleth** analyses (opposite page) are based on all available data subjectively adj

AUGUST

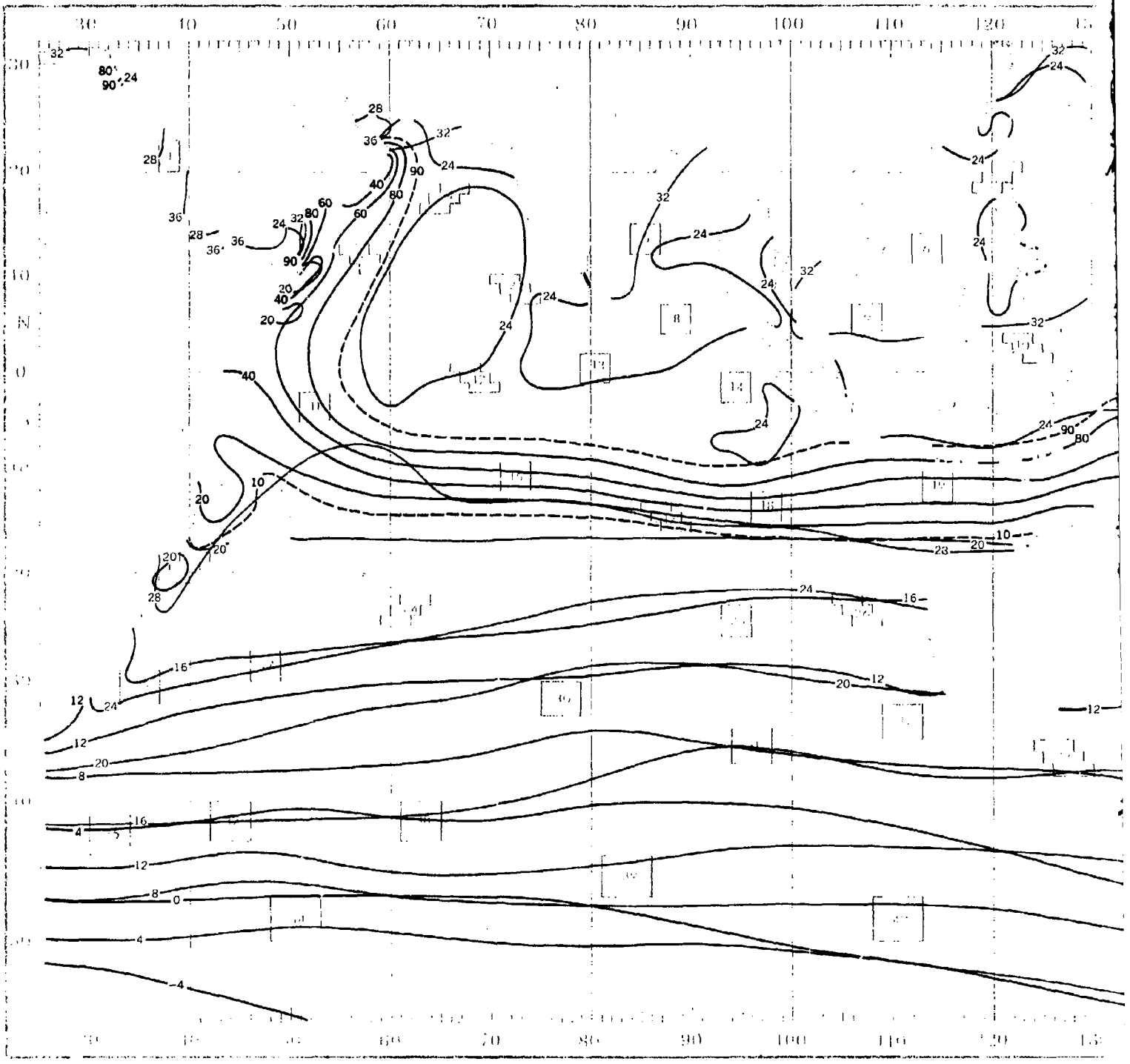


INSUFFICIENT DATA

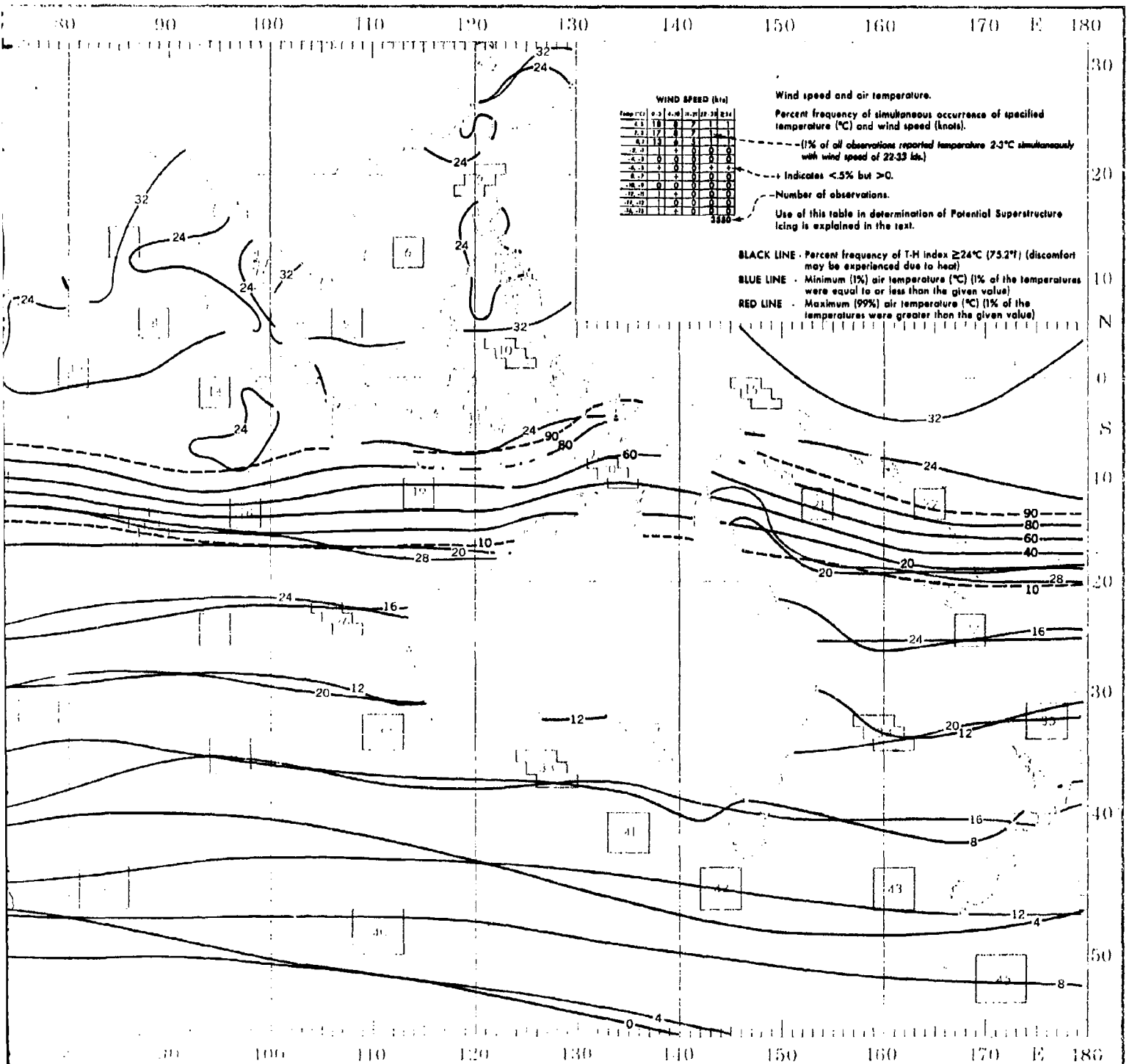
tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

AUGUST

TEMPERATURE E



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.36	+	+	0	+	0
34.37	+	+	+	0	0
32.36	1	3	1	+	0
30.35	8	23	10	1	0
28.34	10	27	11	1	0
26.33	1	2	1	+	0
24.32	0	+	+	0	0
22.31	0	0	0	0	0
20.30	0	0	0	0	0
18.29	0	0	0	0	0

5365

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	+	0
34.36	+	+	+	+	0
32.35	+	2	1	+	0
30.34	2	8	7	2	+
28.33	5	22	22	7	1
26.32	1	8	7	3	1
24.31	+	+	1	+	+
22.30	0	+	+	+	+
20.29	0	0	0	0	0
18.28	0	0	0	0	0
16.27	0	0	0	0	0

7750

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	+	+	+	+
28.29	+	+	1	2	+
26.27	+	+	10	28	8
24.25	0	1	15	27	8
22.23	0	+	1	1	+
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4148

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	+	1	+	0
28.29	+	2	11	7	1
26.27	1	8	39	26	1
24.25	0	1	3	2	+
22.23	0	0	0	+	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1058

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	0	2	5	1	0
28.29	1	19	44	11	+
26.27	+	3	8	3	+
24.25	0	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

604

WIND SPEED (K

TEMP (°C)	0-3	4-10	11-21
36.37	+	+	+
34.36	0	+	+
32.35	+	1	7
30.31	1	5	8
28.29	3	17	29
26.27	1	6	10
24.26	+	+	1
22.23	0	+	0
20.21	0	0	0
18.19	0	0	0
16.17	0	0	0

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	3	3	+	0	0
28.29	21	33	5	+	0
26.27	6	20	7	1	0
24.25	+	+	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

449

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	0	2	3	1	0
26.27	2	13	34	3	0
24.25	+	9	28	2	0
22.23	0	1	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

264

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	3	+	0	0
28.29	12	31	8	+	0
26.27	10	23	7	+	0
24.25	1	3	2	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

1021

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	3	1	0	0
28.29	3	30	17	1	0
26.27	1	21	16	3	+
24.25	+	1	3	+	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

549

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	4	1	0	0
28.29	15	27	7	1	0
26.27	8	22	7	1	+
24.25	1	3	2	1	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1173

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
32.33	2	2	0
30.31	5	6	2
28.28	14	29	5
26.27	15	12	4
24.26	3	3	+
22.23	0	0	0
20.21	0	0	0
18.18	0	0	0
16.17	0	0	0
14.15	0	0	0
12.13	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	1	4	3	+	0
26.27	1	21	28	2	0
24.26	+	19	19	1	0
22.25	0	+	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

285

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.28	1	1	2	0	0
26.27	2	16	18	+	0
24.26	2	24	29	2	0
22.25	0	1	2	+	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

726

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.28	+	3	4	+	0
26.27	2	21	26	4	0
24.25	3	16	15	3	0
22.23	+	2	1	+	0
20.21	+	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

761

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	2	1	1	0	0
26.27	1	3	2	+	0
24.26	4	16	16	1	0
22.25	2	16	27	4	0
20.23	+	1	2	1	0
18.20	0	0	0	+	0
16.19	0	0	0	0	0
14.17	0	0	0	0	0
12.15	0	0	0	0	0
10.13	0	0	0	0	0

455

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	+	1	1	0	0
26.27	1	4	2	+	0
24.26	5	27	11	1	0
22.25	5	22	11	2	+
20.21	1	2	1	+	+
18.19	0	+	+	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

1124

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
24.26	1	3	1
22.25	3	9	16
20.23	1	10	23
18.19	0	2	7
16.17	0	0	0
14.16	0	0	0
12.13	0	0	0
10.11	0	0	0
8.8	0	0	0
6.7	0	0	0
4.6	0	0	0

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	0	0	0
26.26	+	+	+	0	0
24.25	1	4	7	4	+
22.23	2	12	20	8	1
20.21	2	9	13	6	1
18.19	+	2	3	2	1
16.18	0	0	+	+	+
14.17	0	0	0	0	0
12.15	0	0	0	0	0
10.13	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

1905

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	+	+	0	0
26.26	+	+	2	1	+
24.25	1	5	8	4	+
22.23	1	6	11	3	+
20.21	2	11	23	8	+
18.19	3	8	12	3	0
16.17	+	3	2	1	+
14.16	0	+	+	0	0
12.15	0	0	0	0	0
10.13	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

648

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	2	3	1	0
16.17	3	15	16	4	0
14.15	8	21	9	6	0
12.13	1	8	4	3	0
10.11	0	+	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

252

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.17	+	+	1	+	0
16.16	1	2	7	5	2
14.15	2	8	21	14	3
12.13	1	7	11	8	2
10.11	0	1	2	1	1
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

845

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	1	2	1	1	+
16.17	1	8	11	6	1
14.16	2	13	16	7	3
12.13	1	8	9	4	1
10.11	+	1	1	2	1
8.9	0	0	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

566

WIND SPEED (KT

TEMP (°C)	0-3	4-10	11-21
18.18	0	+	+
16.17	+	2	3
14.16	1	8	16
12.13	2	14	17
10.11	1	5	5
8.8	0	+	1
6.7	0	0	0
4.5	0	0	0
2.3	0	0	0
0.1	0	0	0
-2.-1	0	0	0

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	+	0	+
16.17	0	+	+	1	1
14.15	0	1	2	6	1
12.13	0	1	6	7	2
10.11	+	2	7	6	3
8.9	+	4	9	8	3
6.7	1	3	8	4	3
4.5	0	2	1	2	2
2.3	0	1	+	+	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

888

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	+	+	1
14.16	+	1	6	5	6
12.13	+	3	7	10	6
10.11	1	4	7	8	7
8.9	+	2	4	5	5
6.7	+	+	1	3	2
4.5	+	0	0	1	1
2.3	0	0	0	+	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

781

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	0	0	+
10.11	0	0	1	2	1
8.8	0	1	11	5	4
6.7	1	2	9	9	3
4.5	0	2	15	11	4
2.3	0	0	5	5	8
0.1	0	0	0	0	+
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

208

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.8	0	0	0	0	0
6.7	0	11	5	5	2
4.5	3	5	14	10	2
2.3	0	0	1	2	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

63

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	+	1	0
12.13	0	5	16	4	1
10.11	1	11	19	8	1
8.8	+	8	12	7	0
6.7	0	3	1	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

213

WIND SPEED (KTS

TEMP (°C)	0-3	4-10	11-21
12.13	1	1	3
10.11	1	8	19
8.8	1	7	14
6.7	0	3	3
4.5	0	0	1
2.3	0	0	0
0.1	0	0	0
-2.-1	0	0	0
-4.-3	0	0	0
-6.-5	0	0	0
-8.-7	0	0	0

Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively ad

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4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.00	0	0	+	0	0
30.91	0	+	1	+	0
28.29	+	2	11	7	1
26.27	1	6	38	26	1
24.26	0	1	3	2	+
22.23	0	0	0	+	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

1056

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.00	+	1	+	0	0
30.91	0	2	5	1	0
28.29	1	19	44	11	+
26.27	+	3	8	3	+
24.26	0	1	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

504

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.97	+	+	+	0	0
34.36	0	+	+	+	0
32.33	+	1	2	+	0
30.31	1	5	8	2	+
28.29	3	17	29	8	+
26.27	1	6	10	3	+
24.26	+	+	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6869

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	+	0	0
32.33	+	1	+	0	0
30.31	+	5	4	+	0
28.29	2	22	20	1	0
26.27	2	20	16	1	+
24.26	+	1	3	1	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

6138

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	+	0
30.31	+	1	4	+	0
28.29	+	12	41	5	+
26.27	+	9	30	4	+
24.26	0	1	1	+	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

4320

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.97	0	+	+	0	0
34.36	+	+	+	+	0
32.33	+	1	1	+	0
30.31	1	7	6	+	0
28.29	7	36	19	1	0
26.27	2	10	7	+	+
24.26	+	1	1	+	+
22.23	0	+	+	0	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5272

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	3	1	0	0
28.29	3	30	17	1	0
26.27	1	21	16	3	+
24.26	+	1	3	+	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

540

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	4	1	0	0
28.29	16	27	7	1	0
26.27	8	22	7	1	+
24.26	1	3	2	1	0
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

1173

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	2	2	0	0	0
30.31	5	8	2	0	0
28.29	14	29	5	0	0
26.27	15	12	4	0	0
24.26	3	3	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

378

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	+	0	0
28.29	+	1	2	1	0
26.27	1	7	22	5	+
24.26	1	8	37	9	1
22.23	0	0	3	+	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

534

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	1	1	1	1	0
26.27	0	4	11	4	0
24.26	+	4	28	28	2
22.23	0	1	8	8	+
20.21	0	0	0	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

536

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	0	3	4	+	0
26.27	0	9	28	9	0
24.26	0	7	21	12	0
22.23	0	1	4	3	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

382

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.00	2	1	1	0	0
30.31	1	3	2	+	0
28.28	4	16	16	1	0
26.27	2	16	27	4	0
24.26	+	1	2	1	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

455

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	+	1	1	0	0
26.27	1	4	2	+	0
24.25	6	27	11	1	0
22.23	6	22	11	2	+
20.21	1	2	1	+	+
18.18	0	+	+	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

1124

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	1	3	1	0	0
22.23	3	9	16	4	0
20.21	1	10	23	15	1
18.18	0	2	7	8	+
16.17	0	0	0	+	+
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

487

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	3	7	12	0	0
18.18	4	23	21	3	0
16.17	1	8	15	3	0
14.16	0	0	1	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

136

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	0	+	+	0	0
22.23	1	2	5	1	+
20.21	1	10	14	3	+
18.18	2	17	27	6	+
16.17	+	2	6	2	0
14.16	0	0	+	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

772

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	+	+	0	0
24.26	1	2	1	0	+
22.23	1	9	8	1	+
20.21	2	15	19	2	1
18.18	1	16	14	2	1
16.17	+	1	3	+	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

487

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	+	+	1	+	0
14.16	1	2	7	5	2
12.13	2	8	21	14	3
10.11	1	7	11	8	2
8.8	0	1	2	1	1
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

645

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	1	2	1	1	+
16.17	1	8	11	6	1
14.16	2	13	16	7	3
12.13	1	8	9	4	1
10.11	+	1	1	2	1
8.8	0	0	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

566

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	+	+	+	0
16.17	+	2	3	1	+
14.16	1	8	15	5	+
12.13	2	14	17	8	2
10.11	1	5	5	4	1
8.8	0	+	1	1	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

1736

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	+	0	0	0
20.21	+	1	1	+	0
18.18	+	4	6	3	+
16.17	3	12	23	7	1
14.16	2	10	13	6	1
12.13	0	2	3	2	+
10.11	0	0	+	+	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

686

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	0	+	+	0
18.18	+	2	3	2	0
16.17	3	9	18	9	2
14.16	3	13	15	8	2
12.13	1	4	5	1	0
10.11	0	+	1	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

507

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	0	0	+
16.17	0	0	1	+	+
14.16	1	1	2	2	1
12.13	+	4	8	10	3
10.11	1	5	13	9	3
8.8	1	4	9	4	2
6.7	0	1	4	8	2
4.5	0	1	1	1	+
2.3	0	0	0	0	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

709

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.8	0	0	5	3	0
6.7	0	11	5	5	2
4.5	3	5	14	10	2
2.3	0	6	10	5	5
0.1	0	0	0	2	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

63

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.16	0	0	+	1	0
12.13	0	5	16	4	1
10.11	1	11	19	8	1
8.8	+	8	12	7	0
6.7	0	3	1	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

213

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	1	1	3	1	0
10.11	1	8	19	11	7
8.8	1	7	14	11	4
6.7	0	3	3	3	1
4.5	0	0	1	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

202

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.16	1	0	0	0	0
12.13	0	1	3	2	0
10.11	1	8	21	16	0
8.8	1	8	16	8	5
6.7	1	2	3	4	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

165

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.8	0	0	3	0	0
6.7	0	0	0	0	3
4.5	0	3	3	3	16
2.3	0	3	10	16	6
0.1	0	3	13	0	6
-2.-1	0	0	0	0	6
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

31

45

INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.

osite page) are based on all available data subjectively adjusted where bias was evident.

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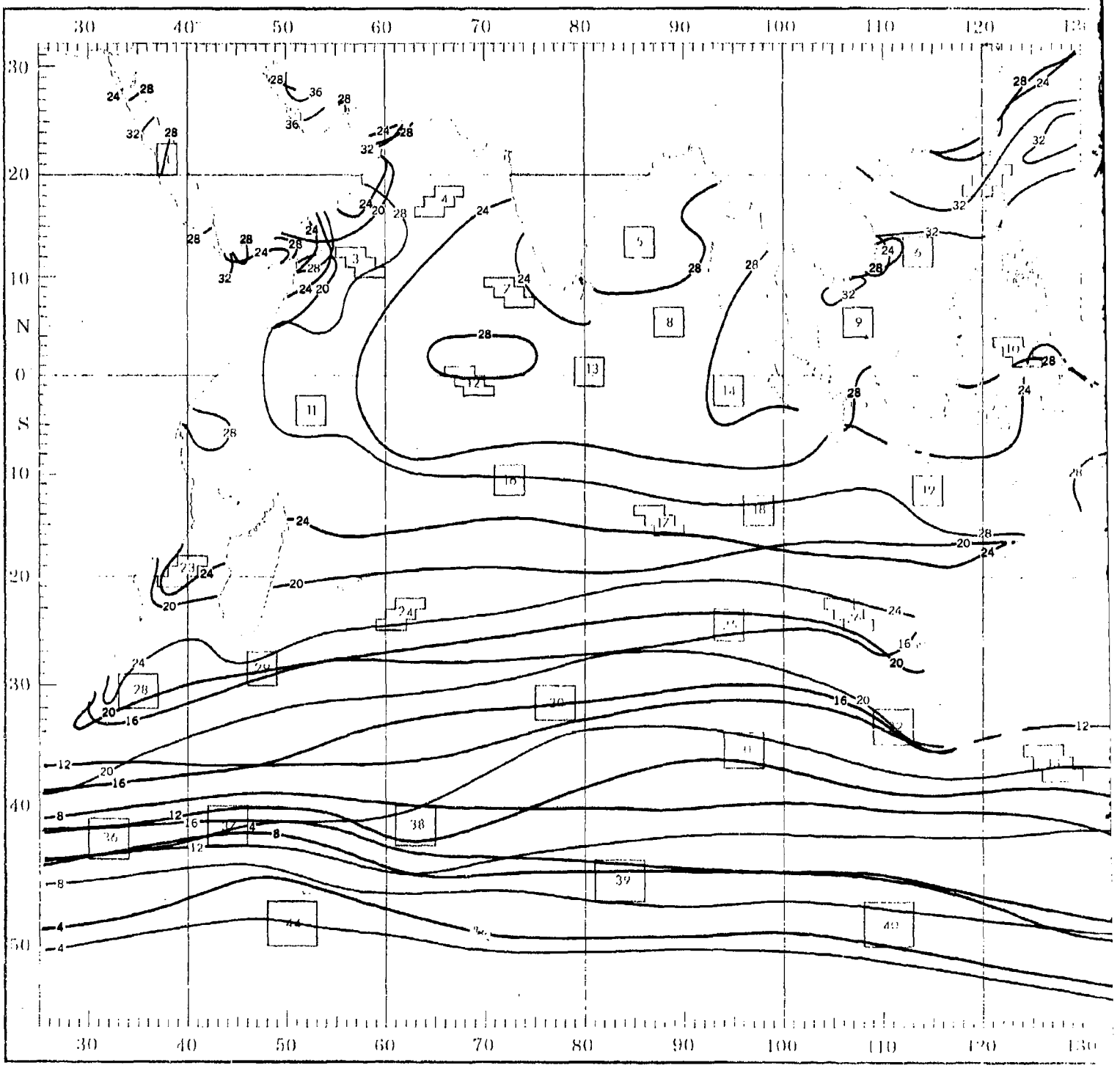
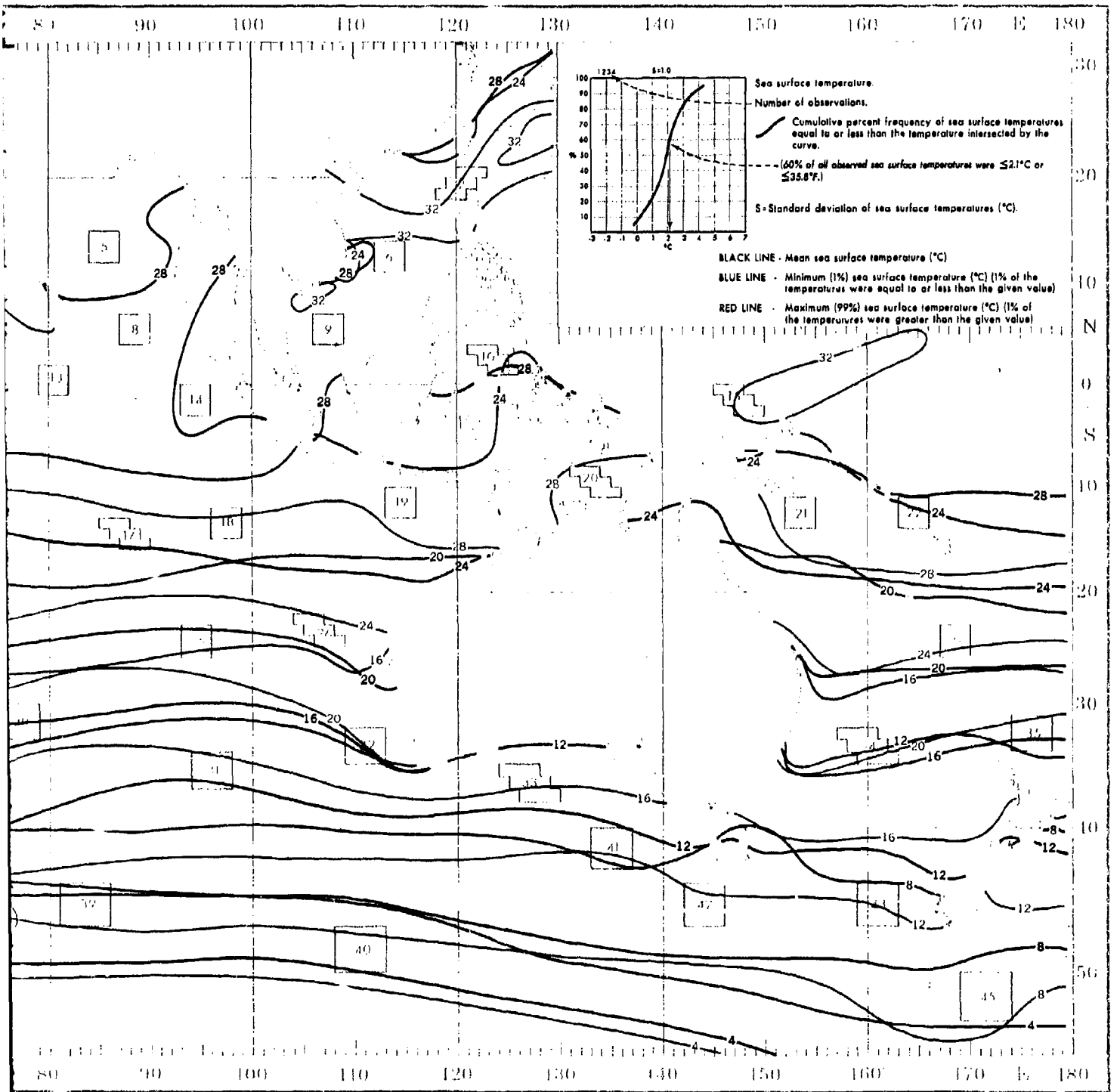
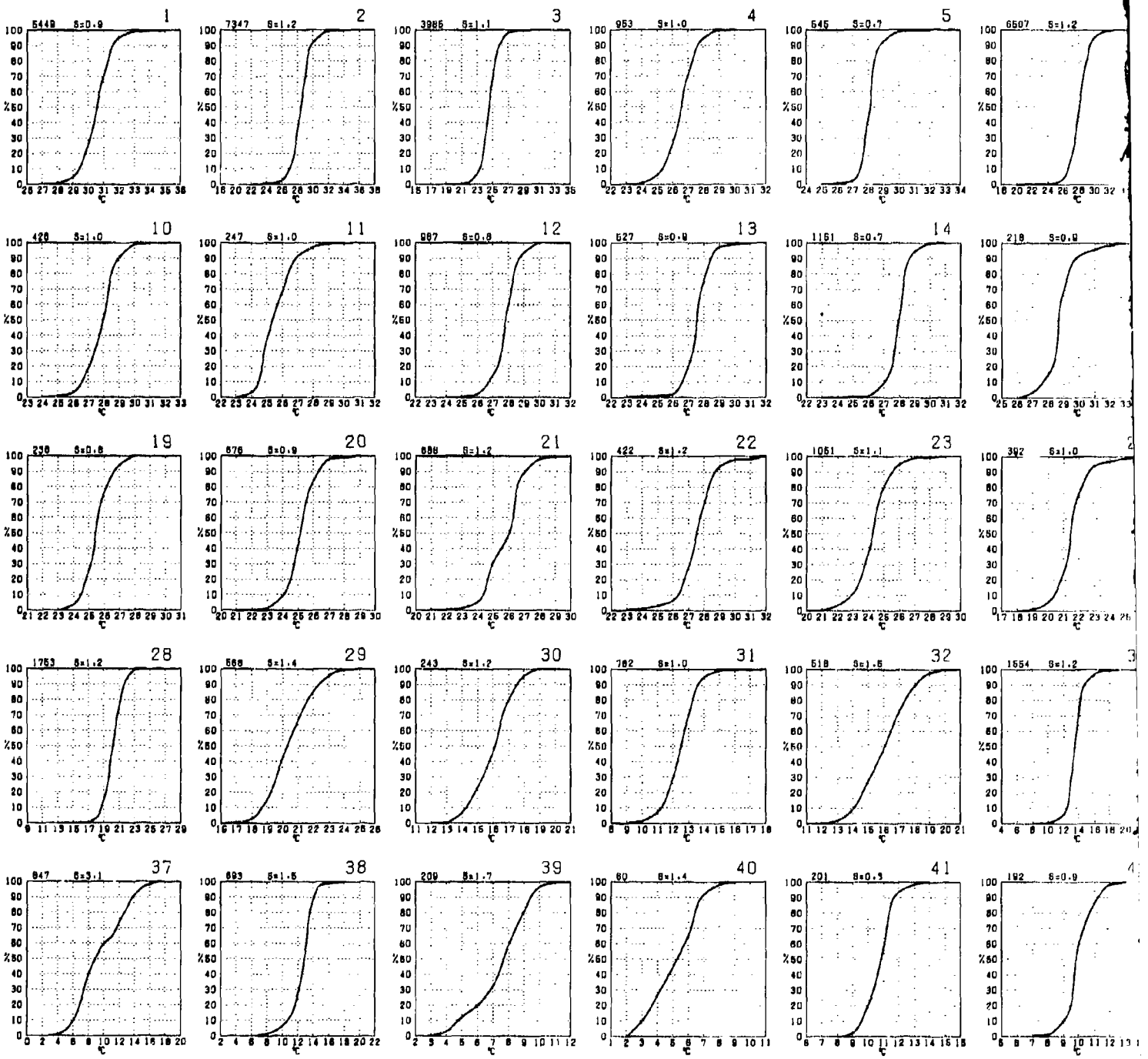


SEA SURFACE TEMPERATURE



SEA SURFACE TEMPERATURE



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

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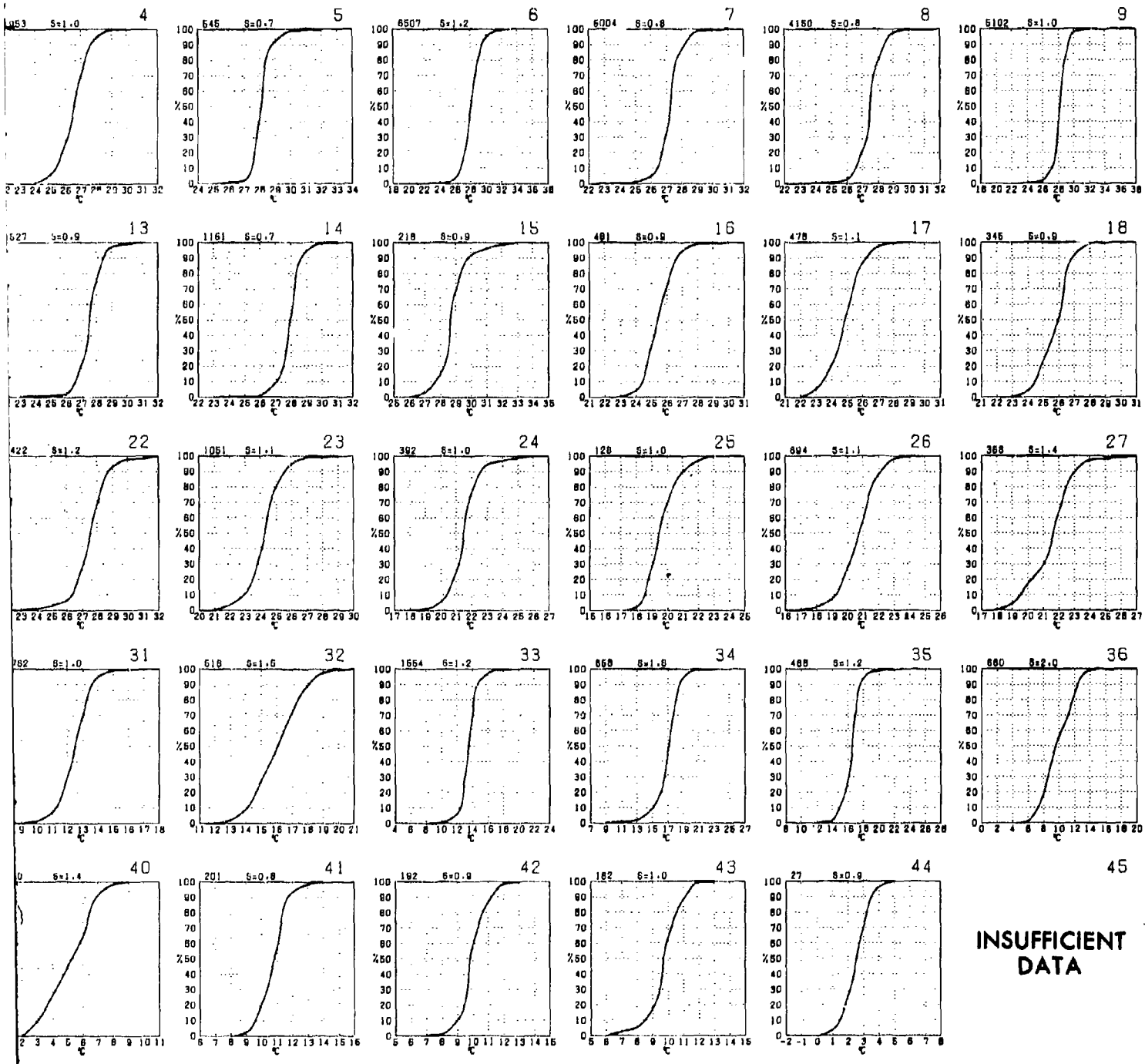

INSUFFICIENT DATA

ve compilation of available data for specified areas without regard to suspected biases.
ite page) are based on all available data subjectively adjusted where bias was evident.

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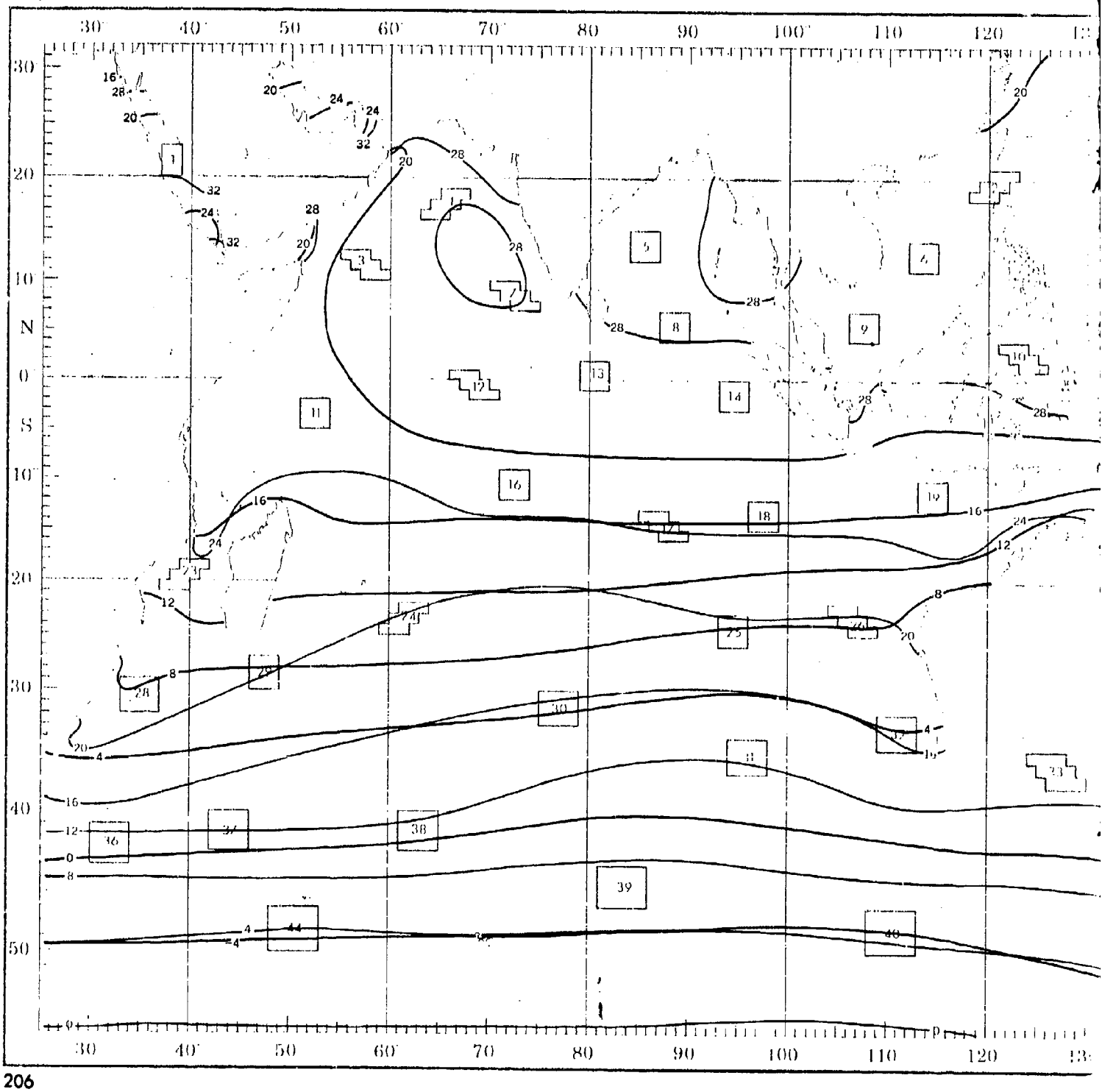
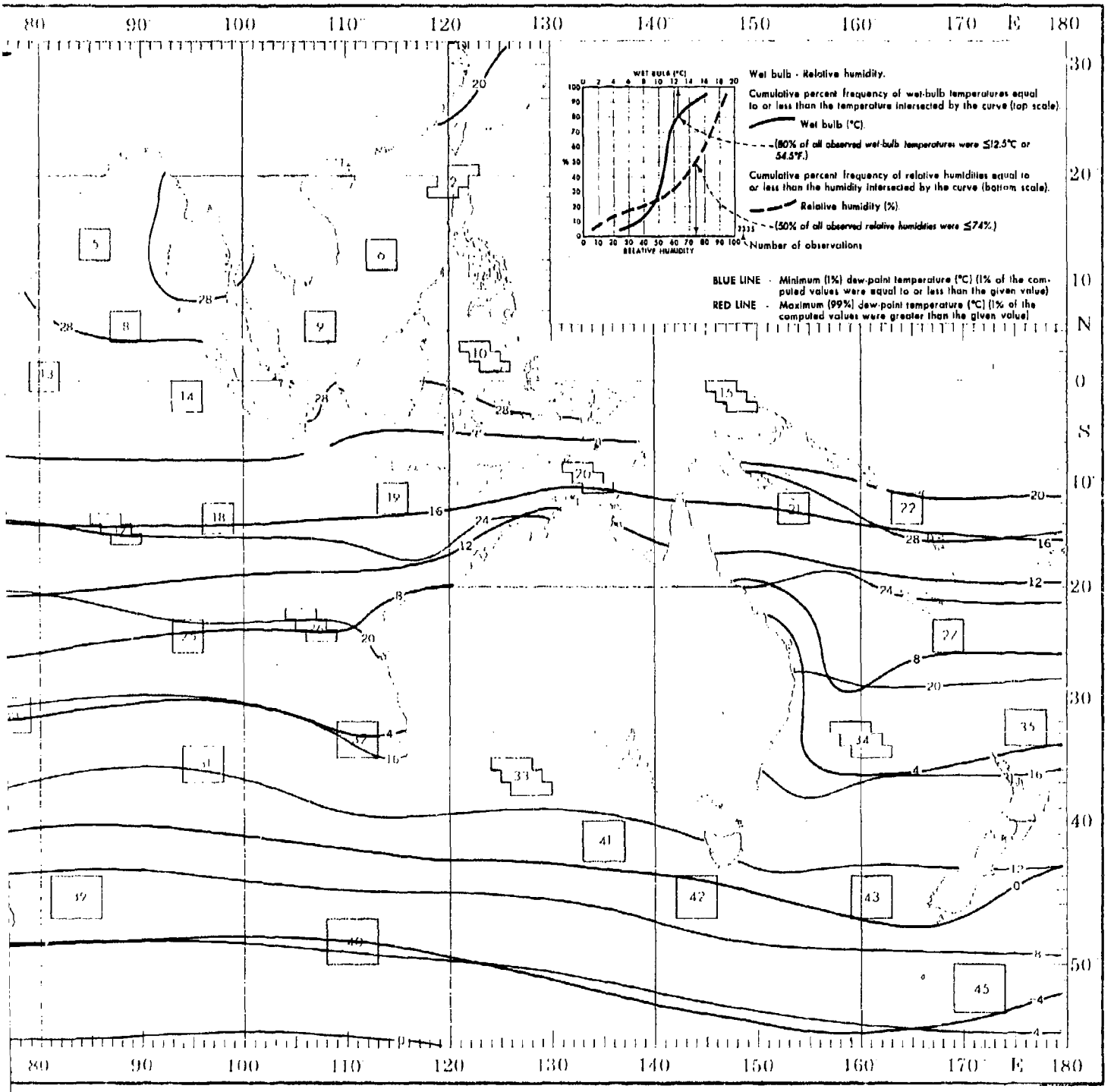
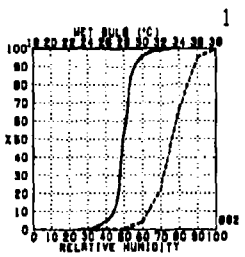
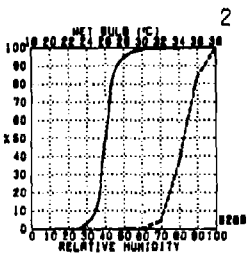


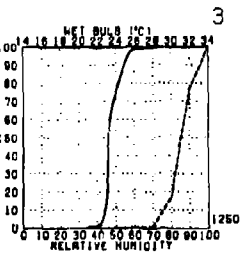
HUMIDITY

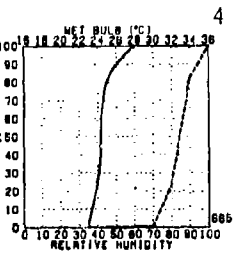

80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50
WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%).
(50% of all observed relative humidities were ≤74%.)
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

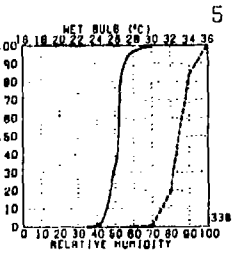
WET BULB AND RELATIVE HUMIDITY

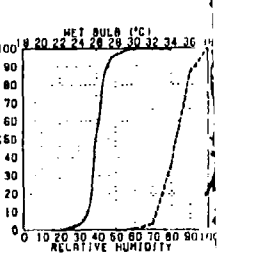


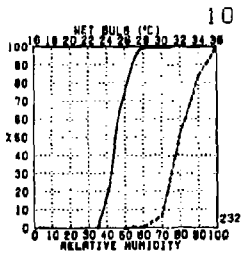


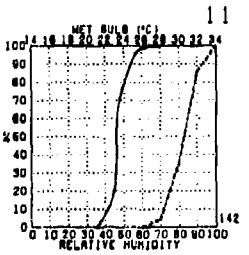


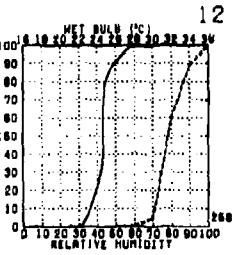


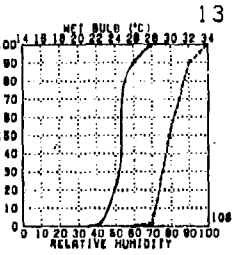


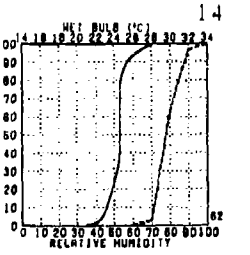


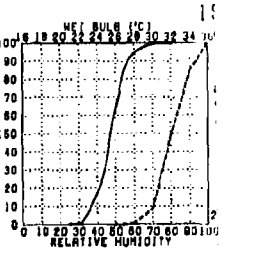


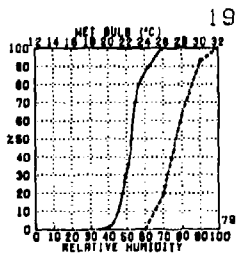


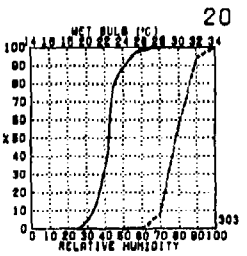


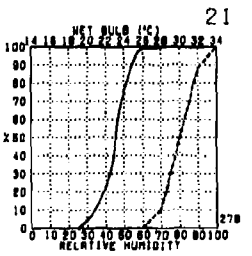


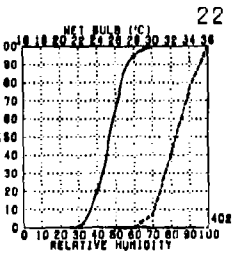


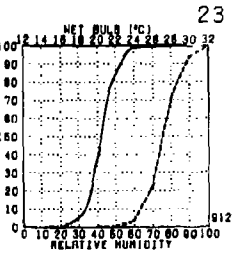


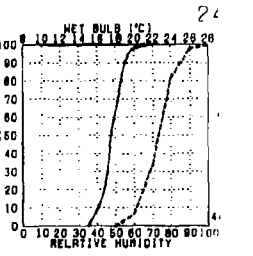


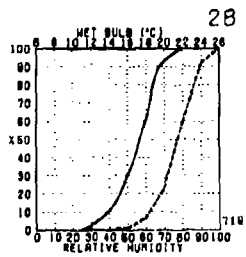


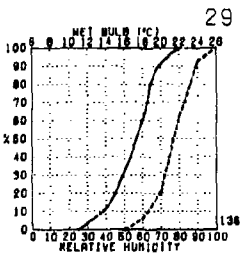


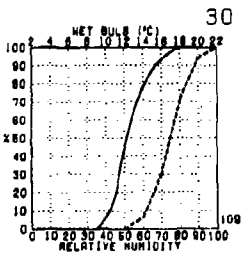


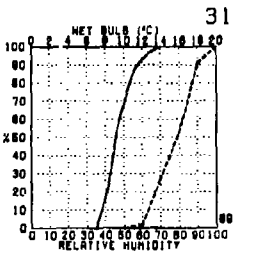


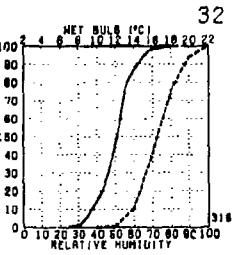


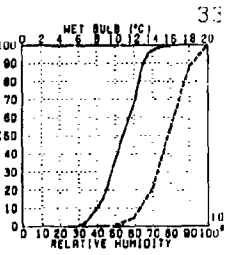






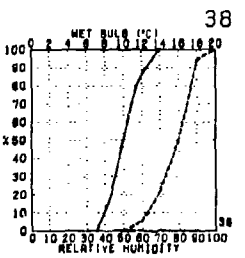


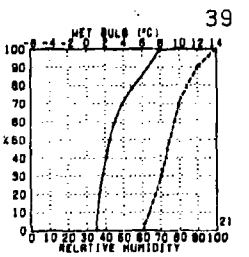




37

INSUFFICIENT DATA





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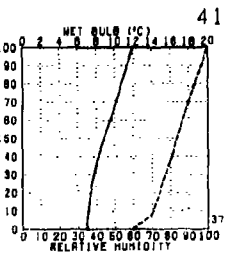

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without

The isopleth analyses (opposite page) are based on all available data subjectively adjust

MIDITY

AUGUST

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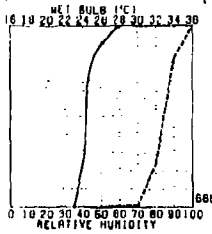

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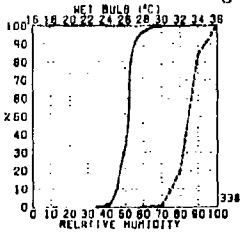

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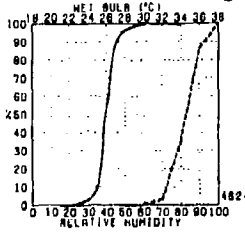

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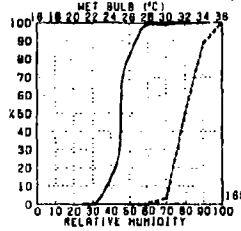

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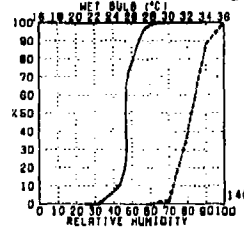

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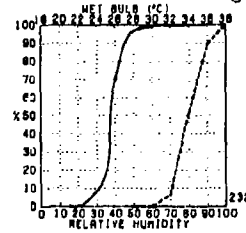

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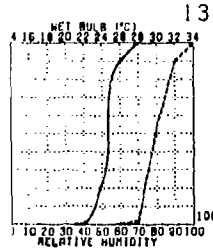

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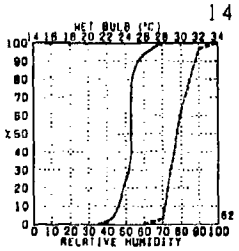

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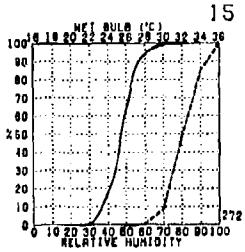

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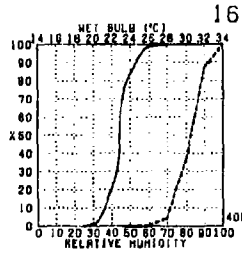

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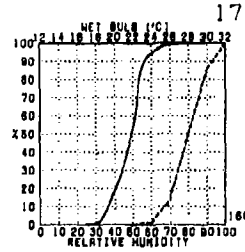

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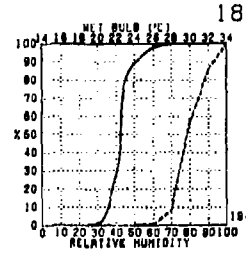

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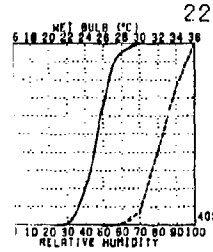

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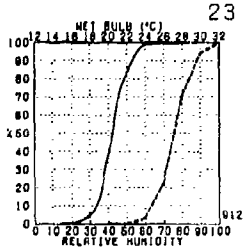

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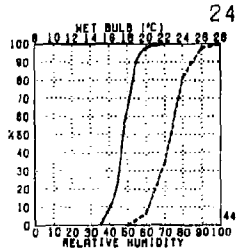

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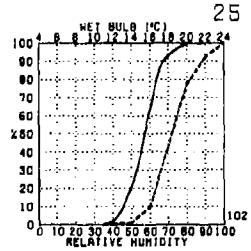

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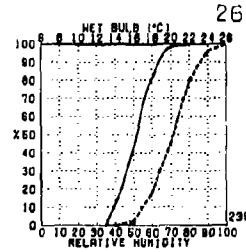

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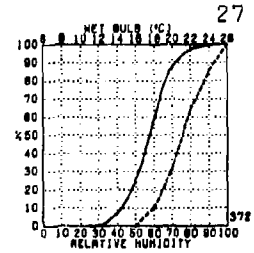

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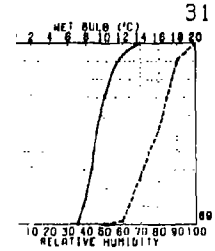

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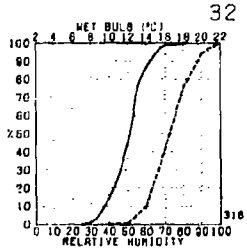

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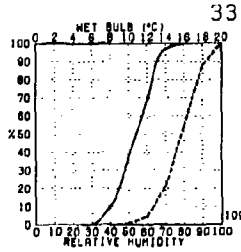

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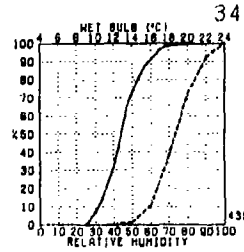

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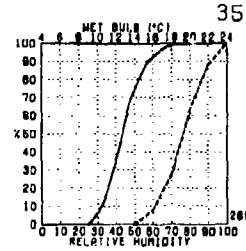

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INSUFFICIENT DATA

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NSUFFICIENT DATA

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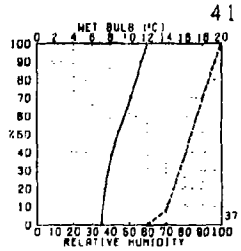

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INSUFFICIENT DATA

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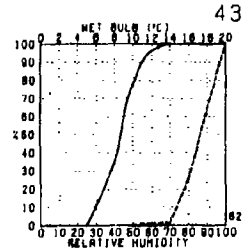

44

INSUFFICIENT DATA

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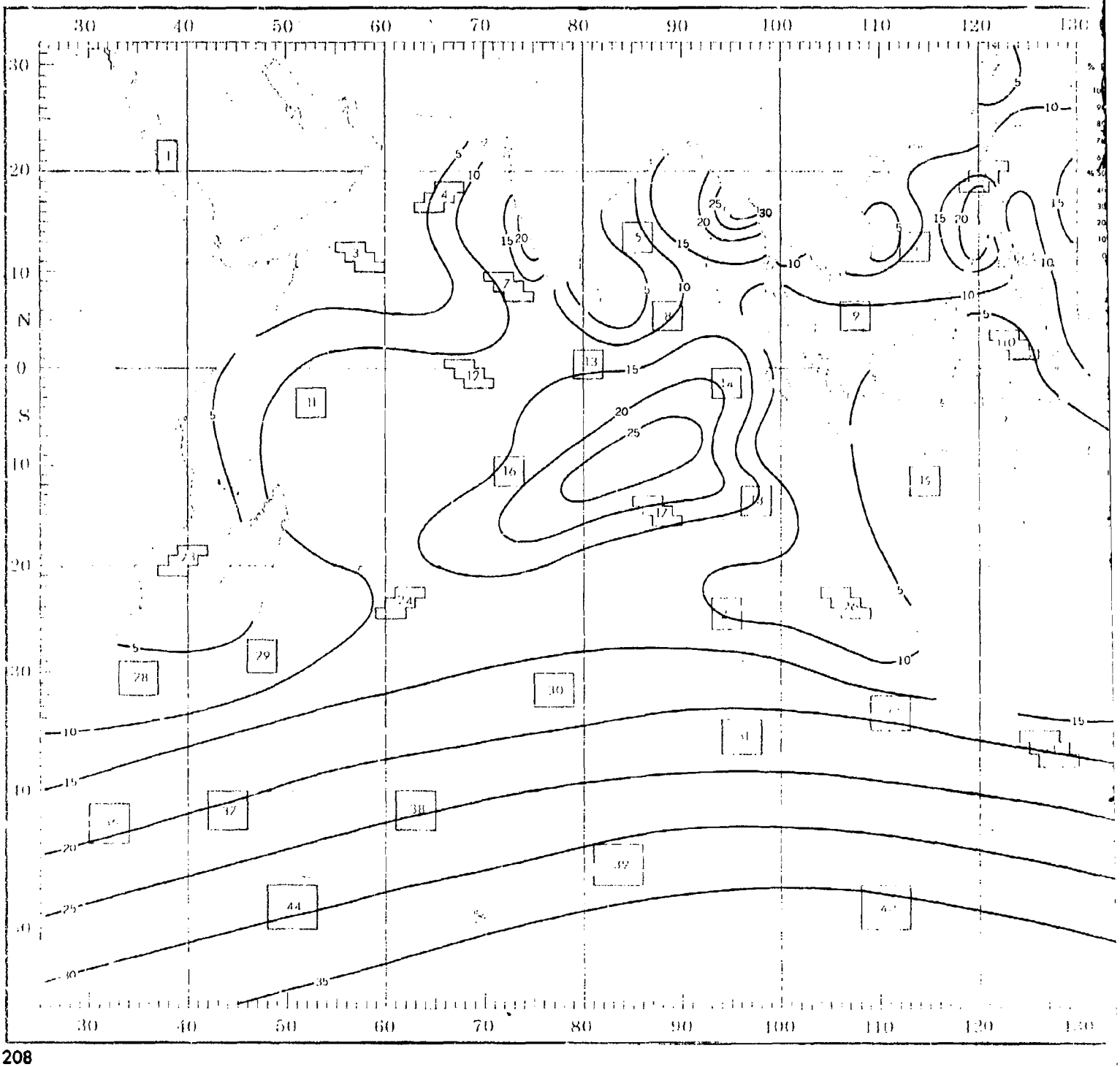
INSUFFICIENT DATA

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

AUGUST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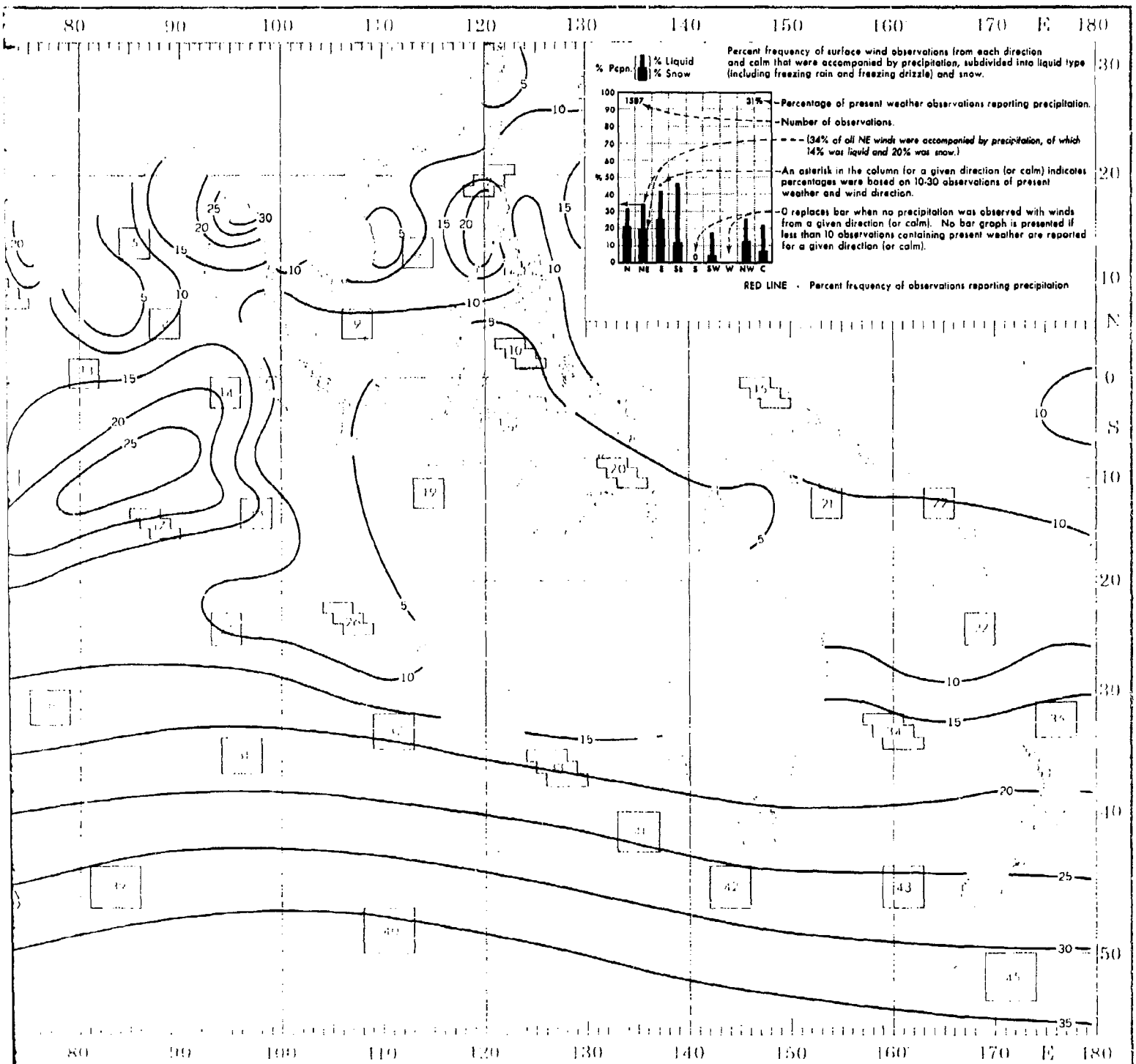
PRECIPITATION



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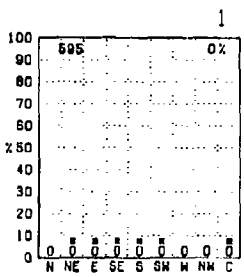

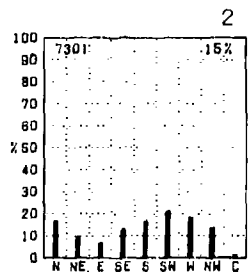

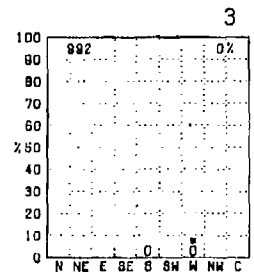

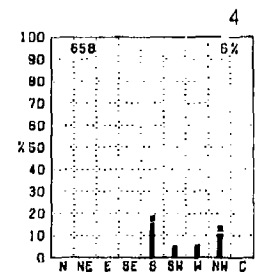

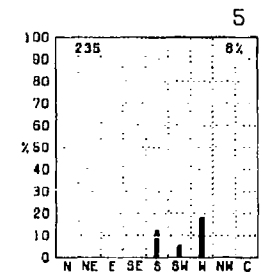

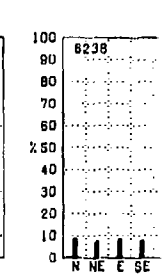

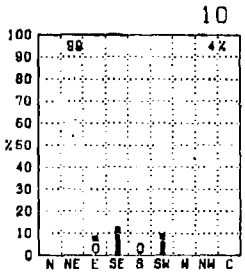

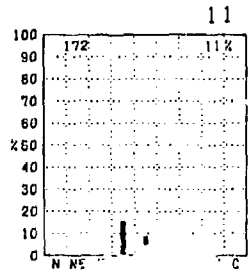

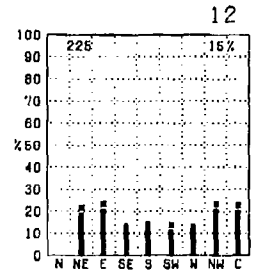

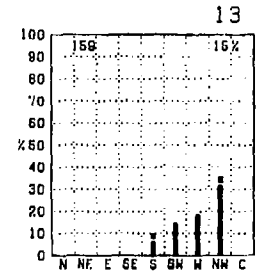

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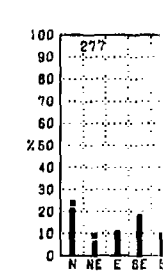
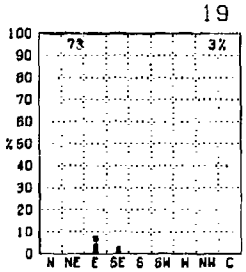
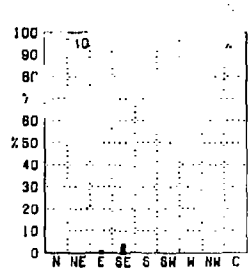
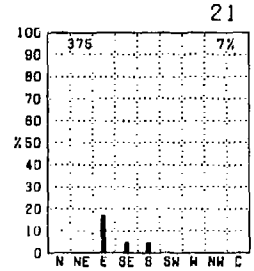
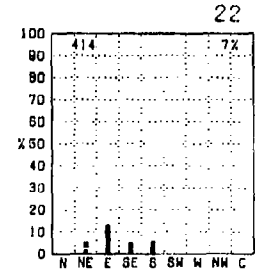
INSUFFICIENT DATA

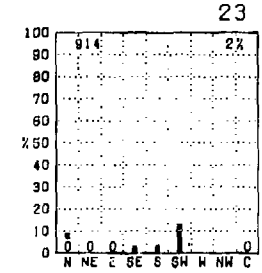


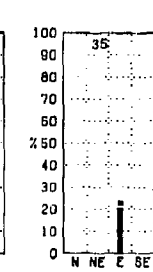


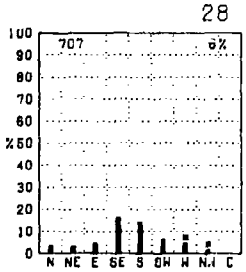


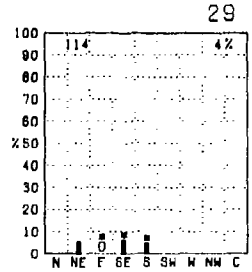


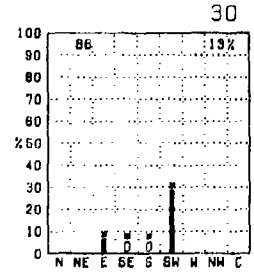


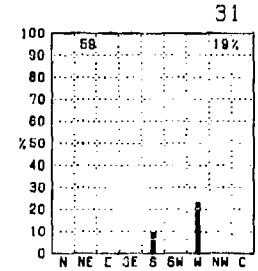


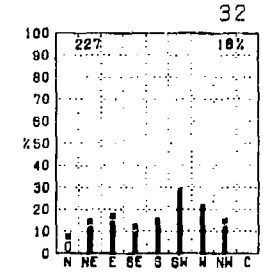


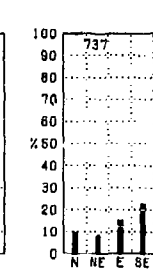












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Graphs represent the objective compilation of available data for specified areas w
The isopleth analyses (opposite page) are based on all available data subjectively

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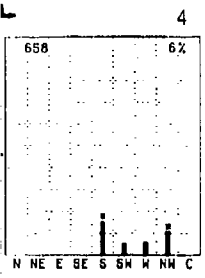

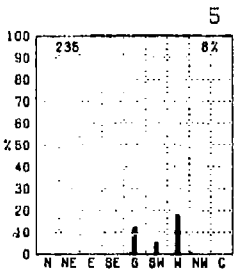

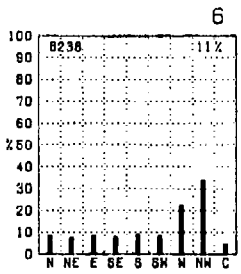

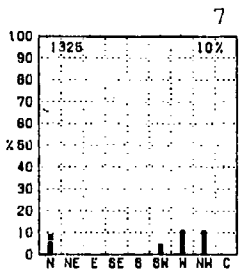

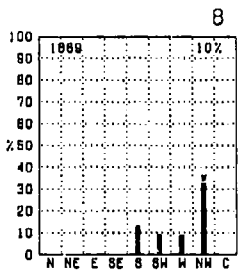

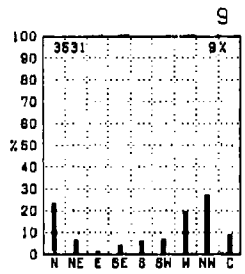

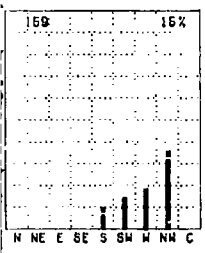

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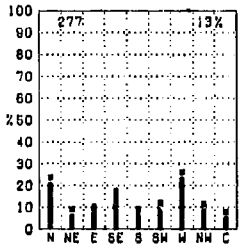

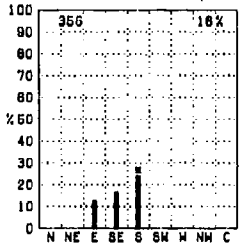

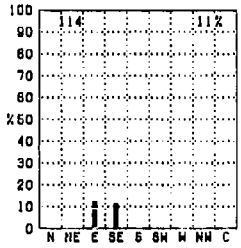

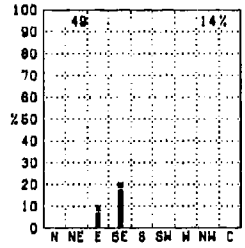

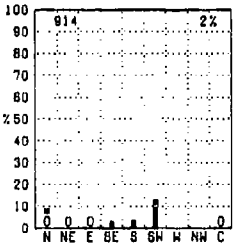

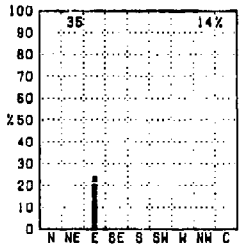

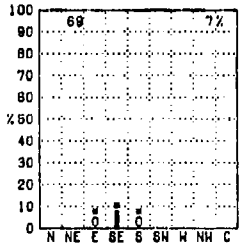

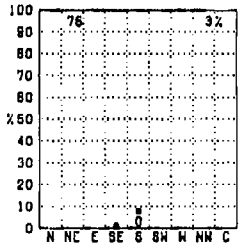

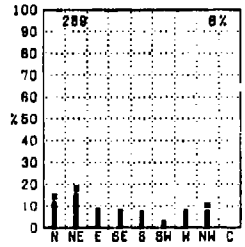

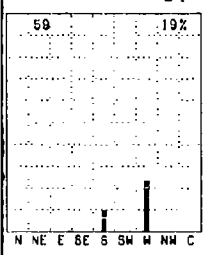

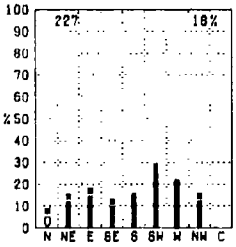

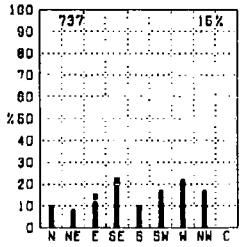

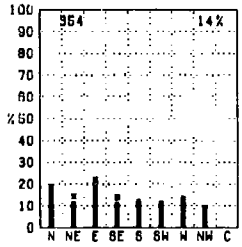

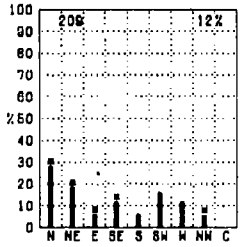

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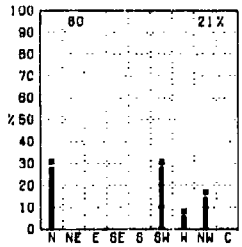
INSUFFICIENT DATA



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ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

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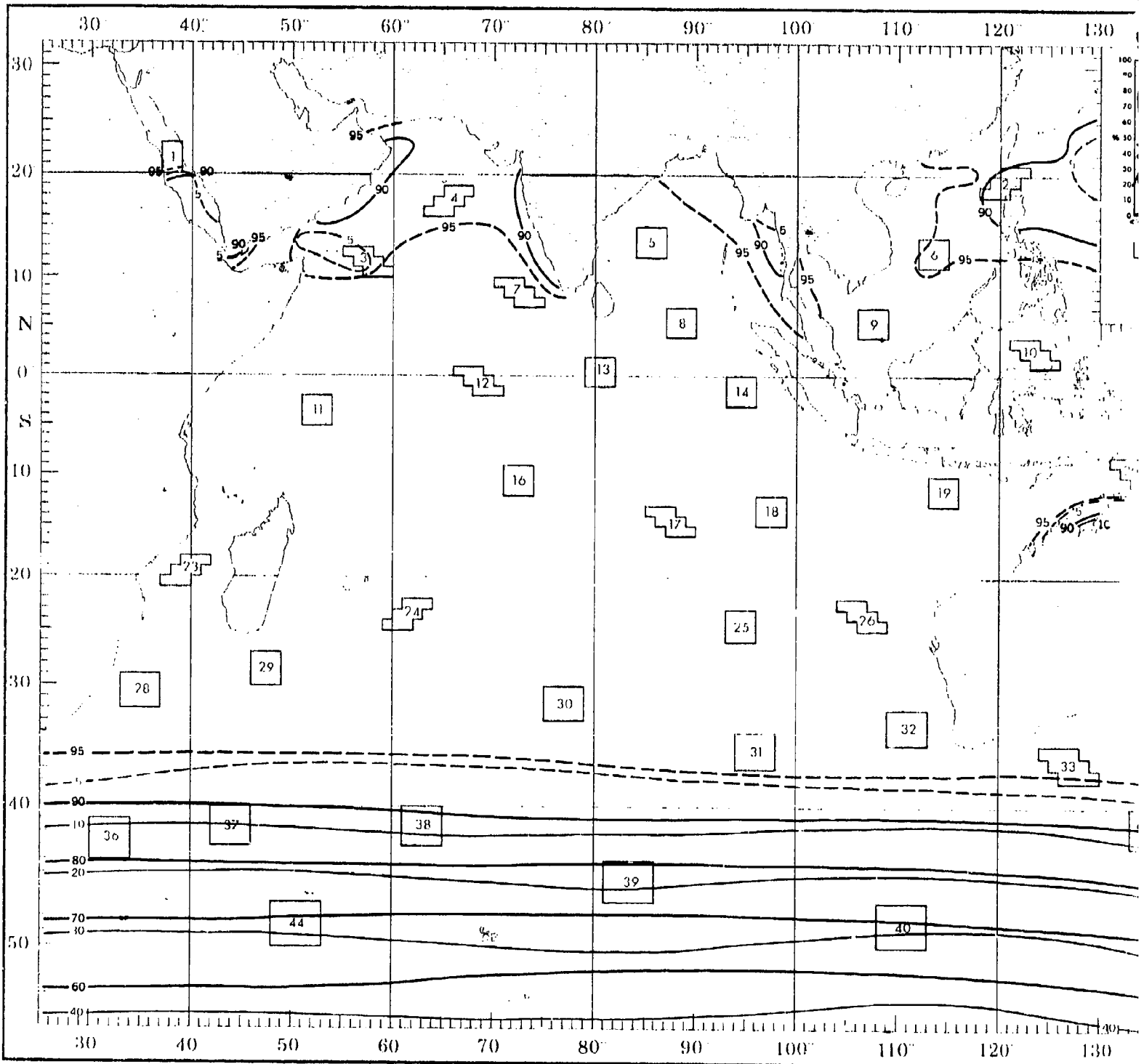
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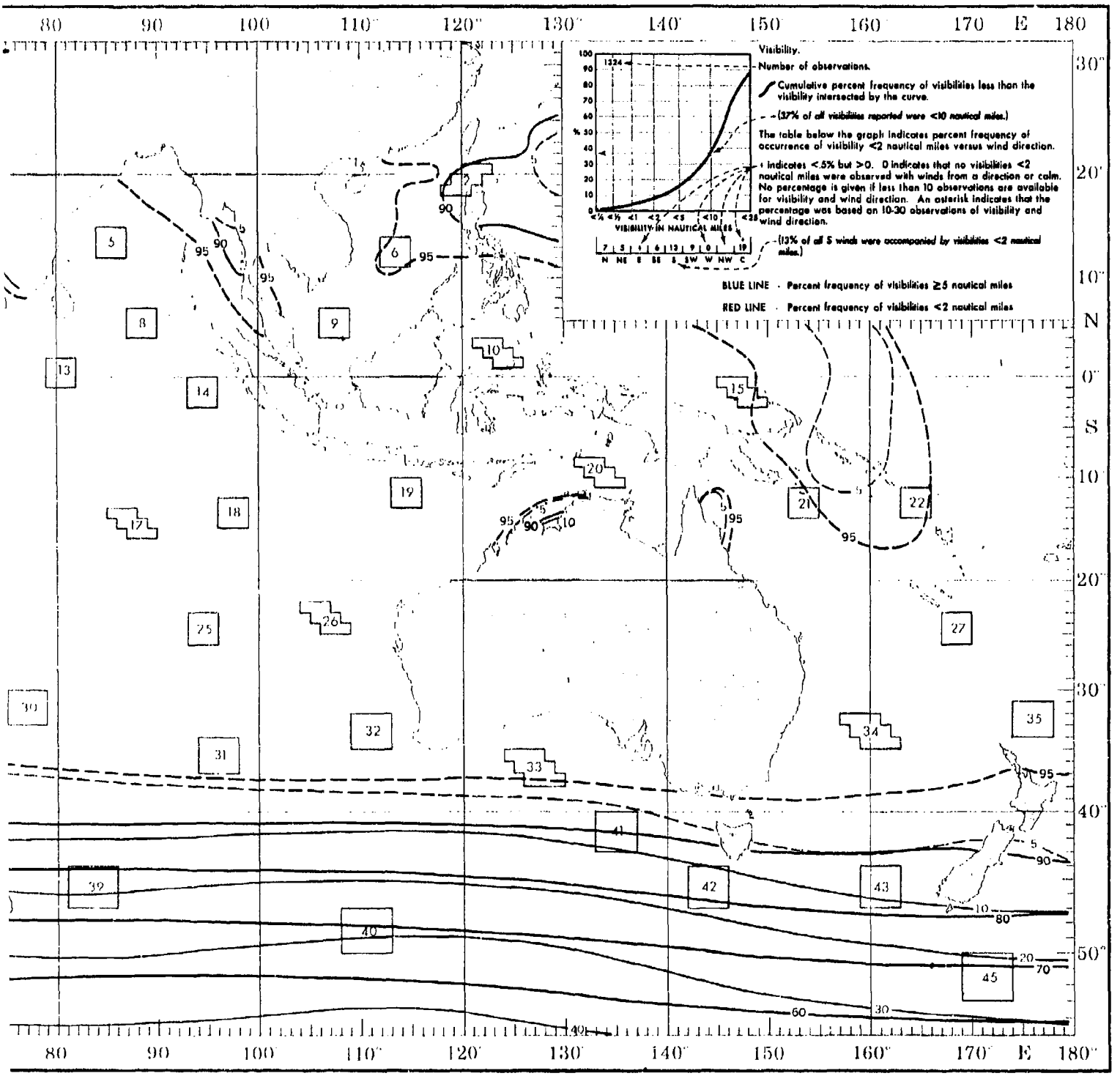
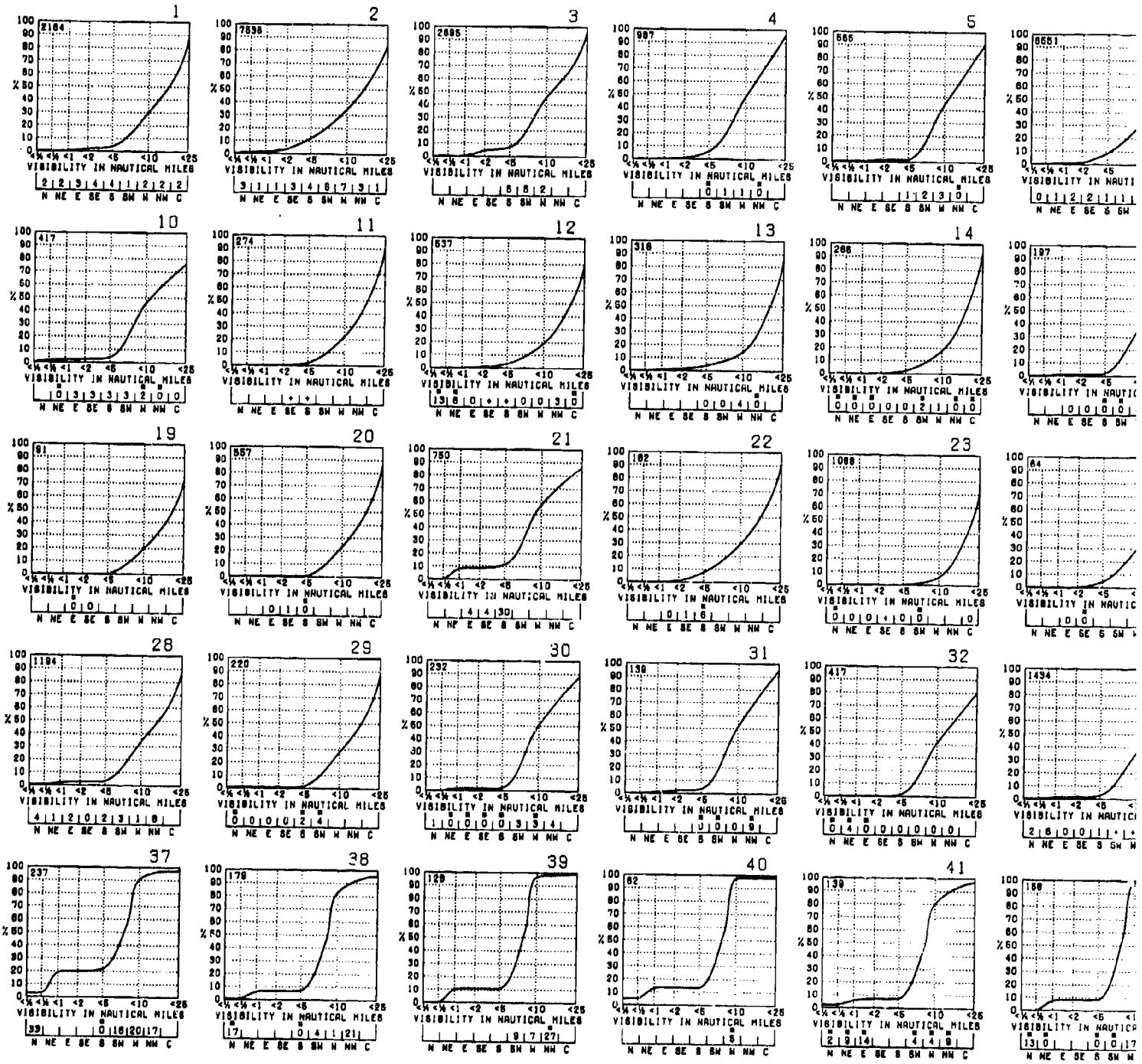
VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
t indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles
VISIBILITY IN NAUTICAL MILES
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

VISIBILITY



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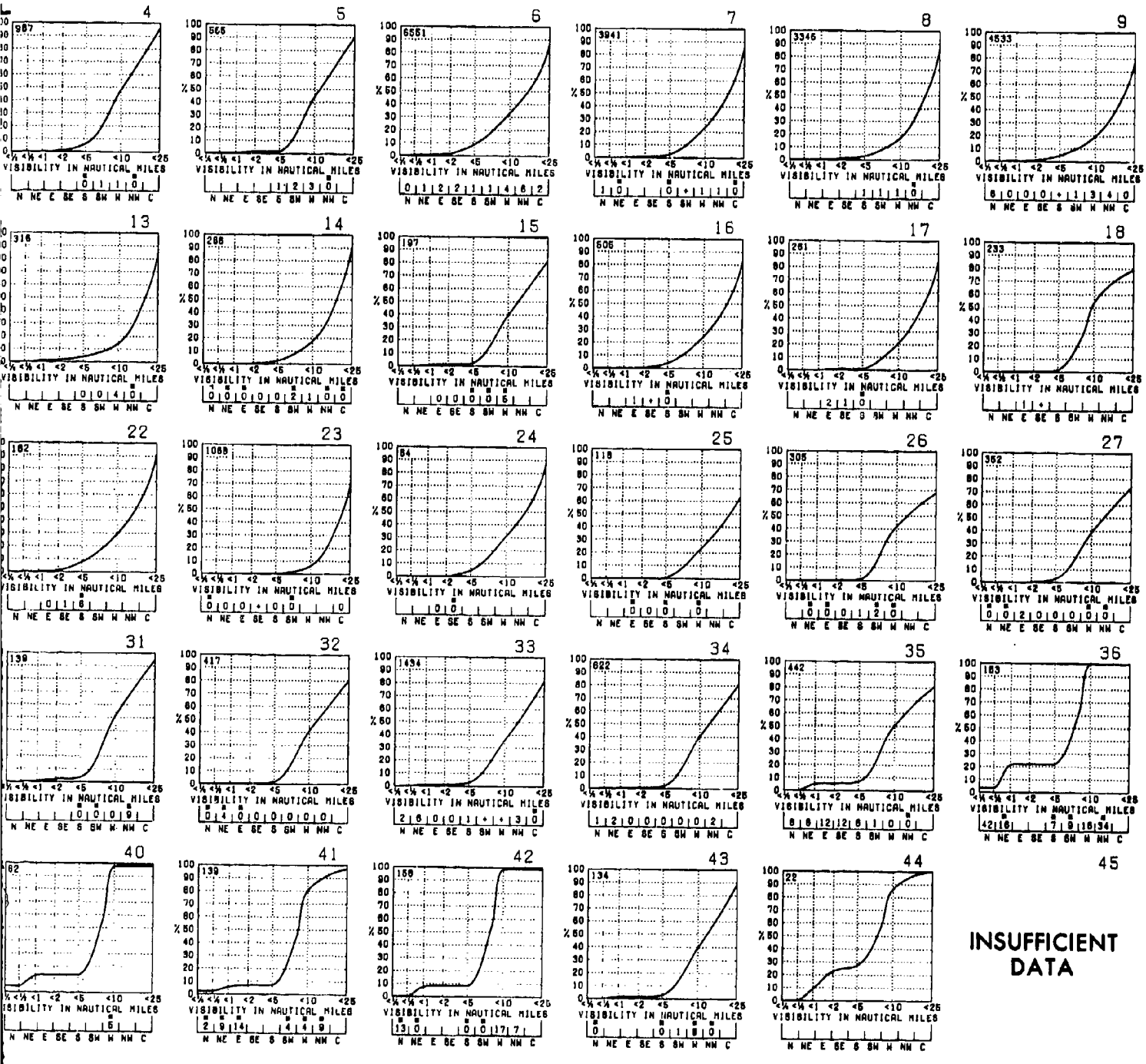

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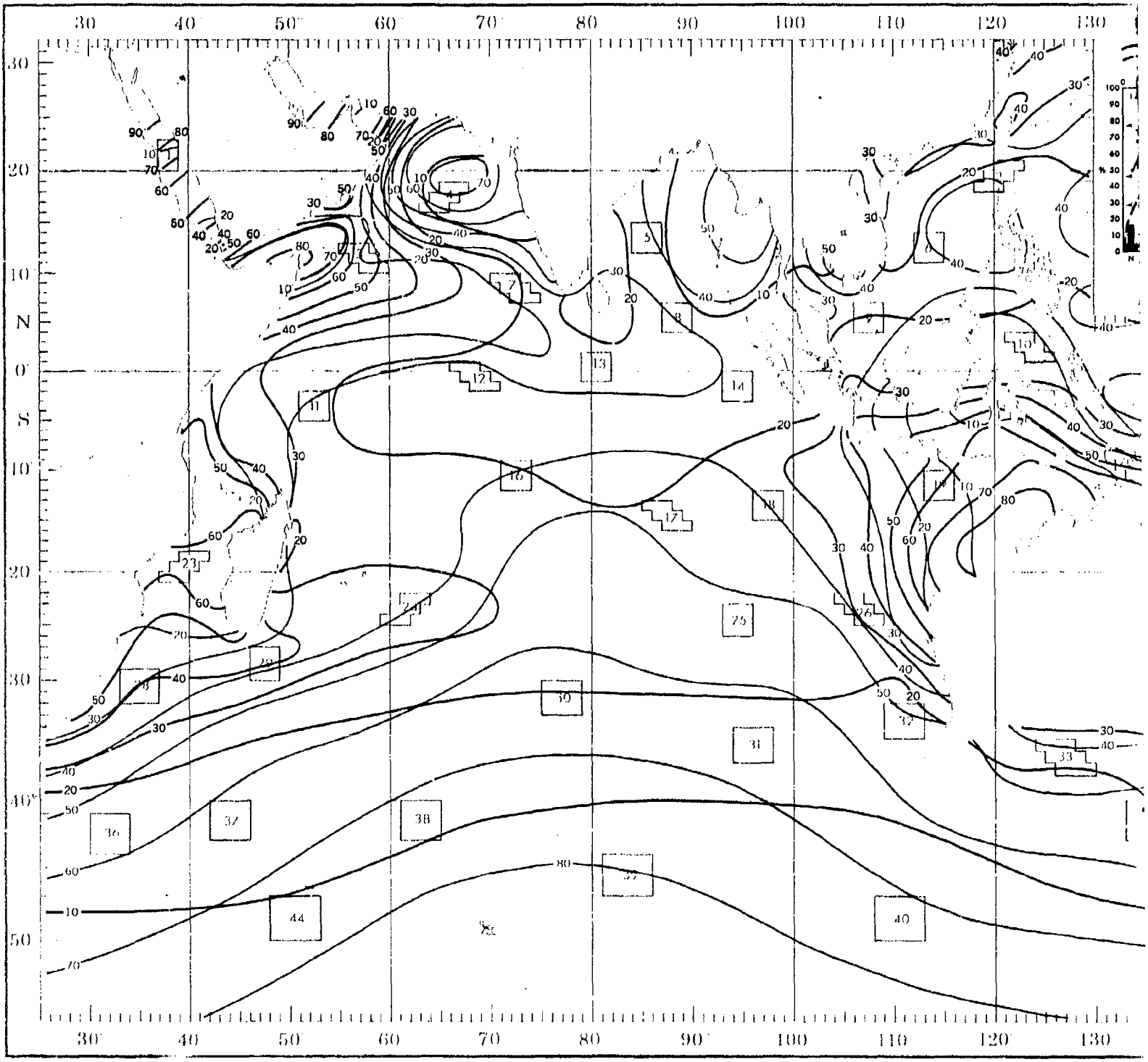
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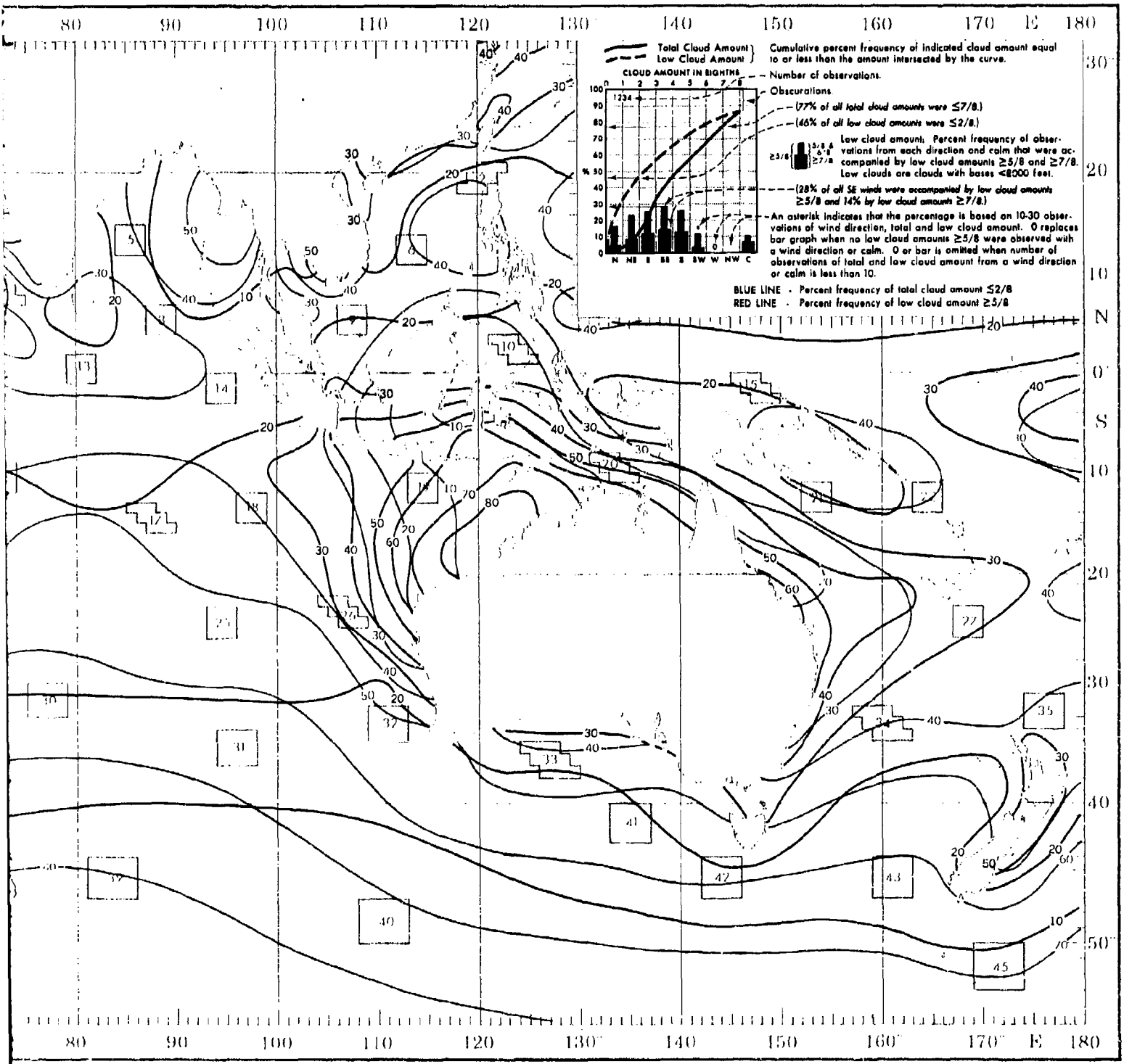
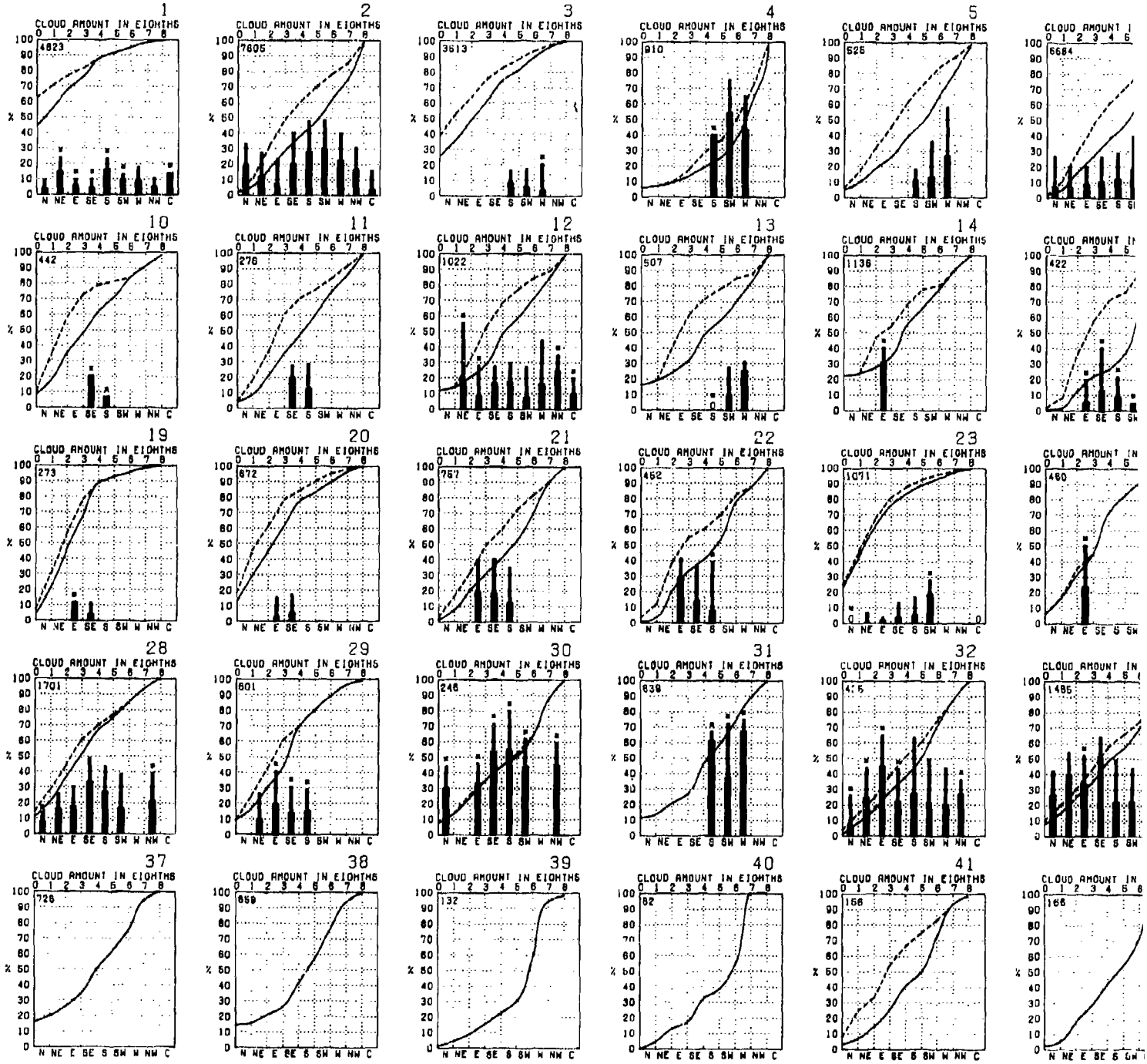
CLOUD COVER

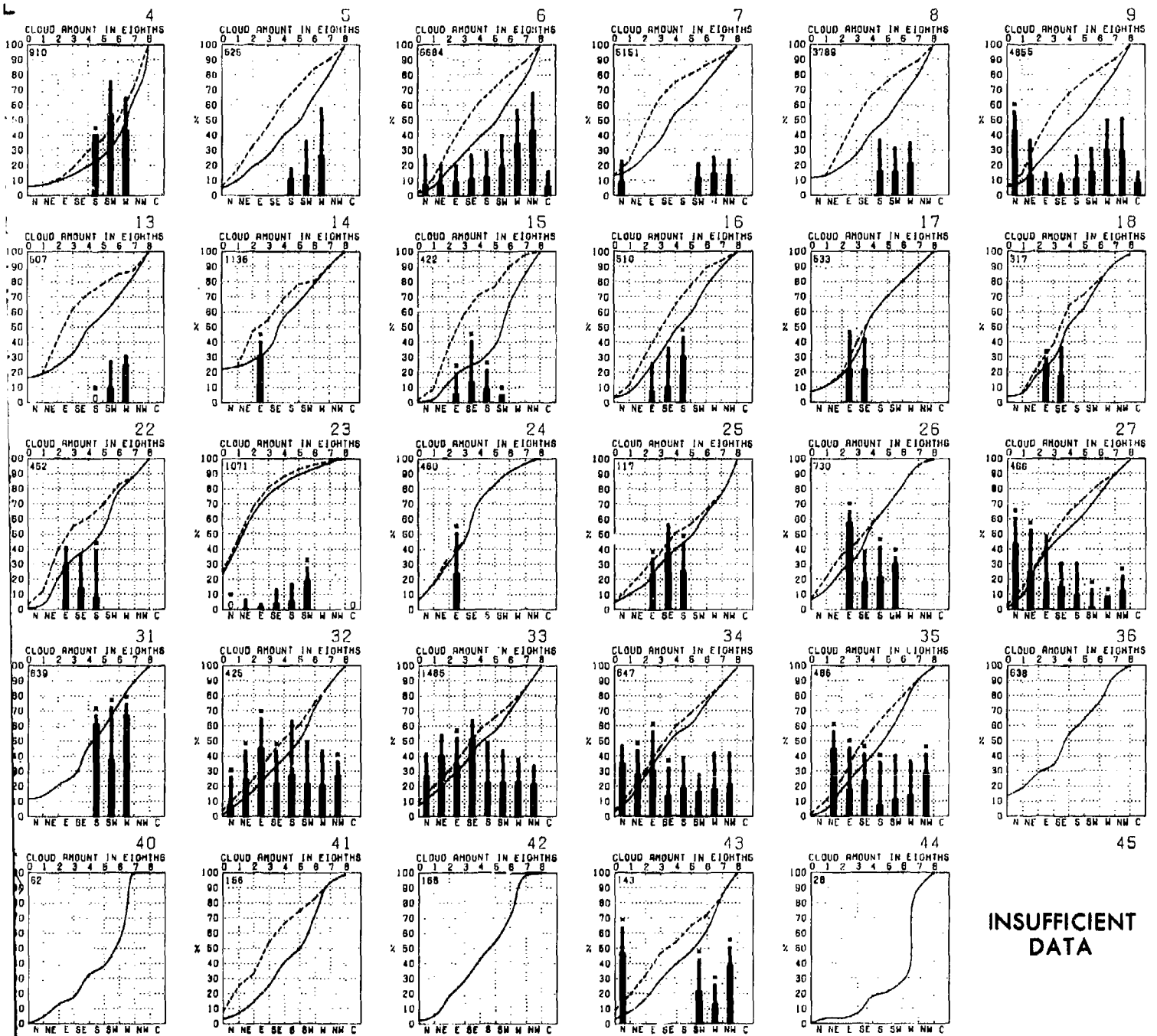

Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount. Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <6000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively ac

AUGUST



INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

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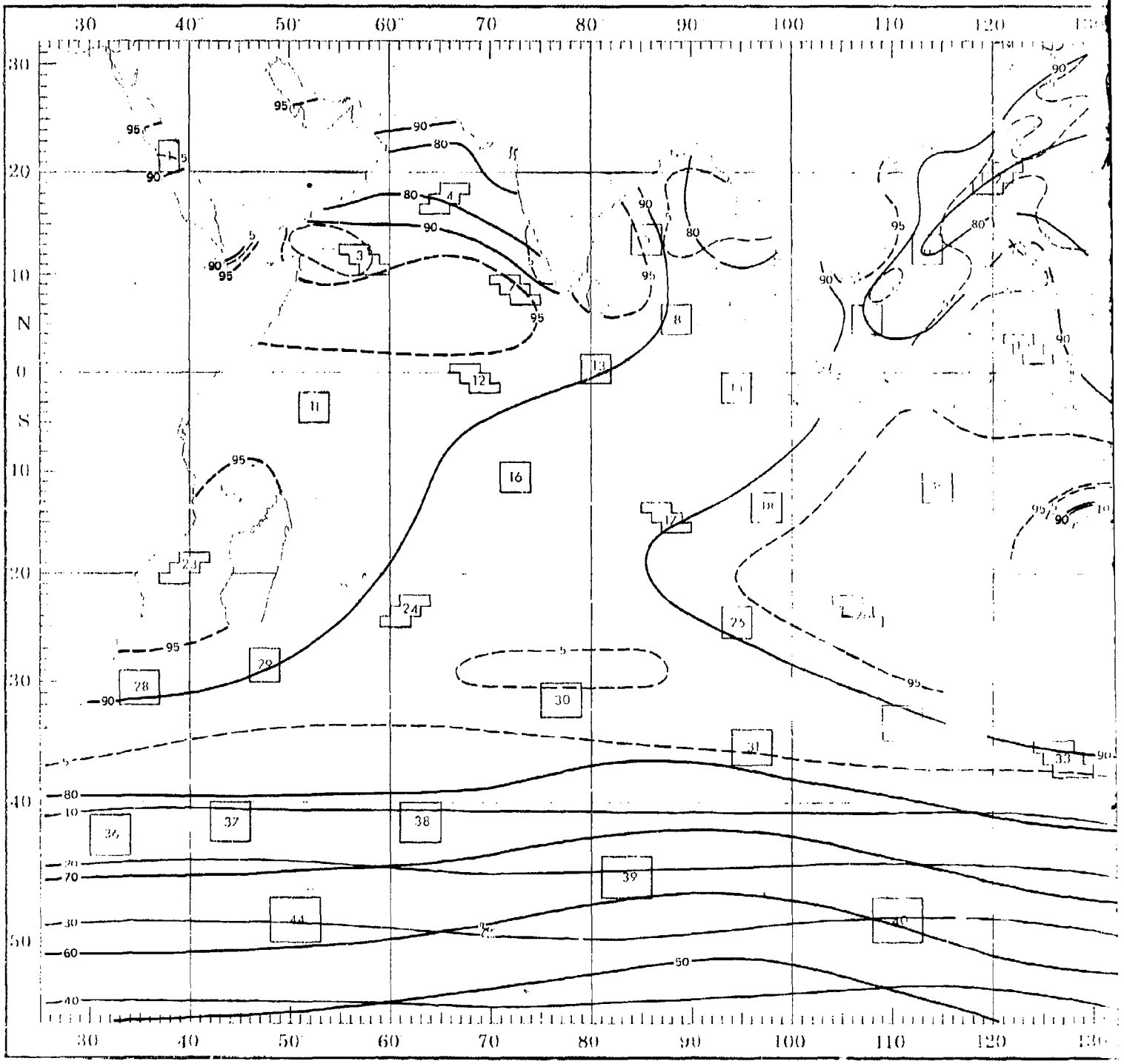

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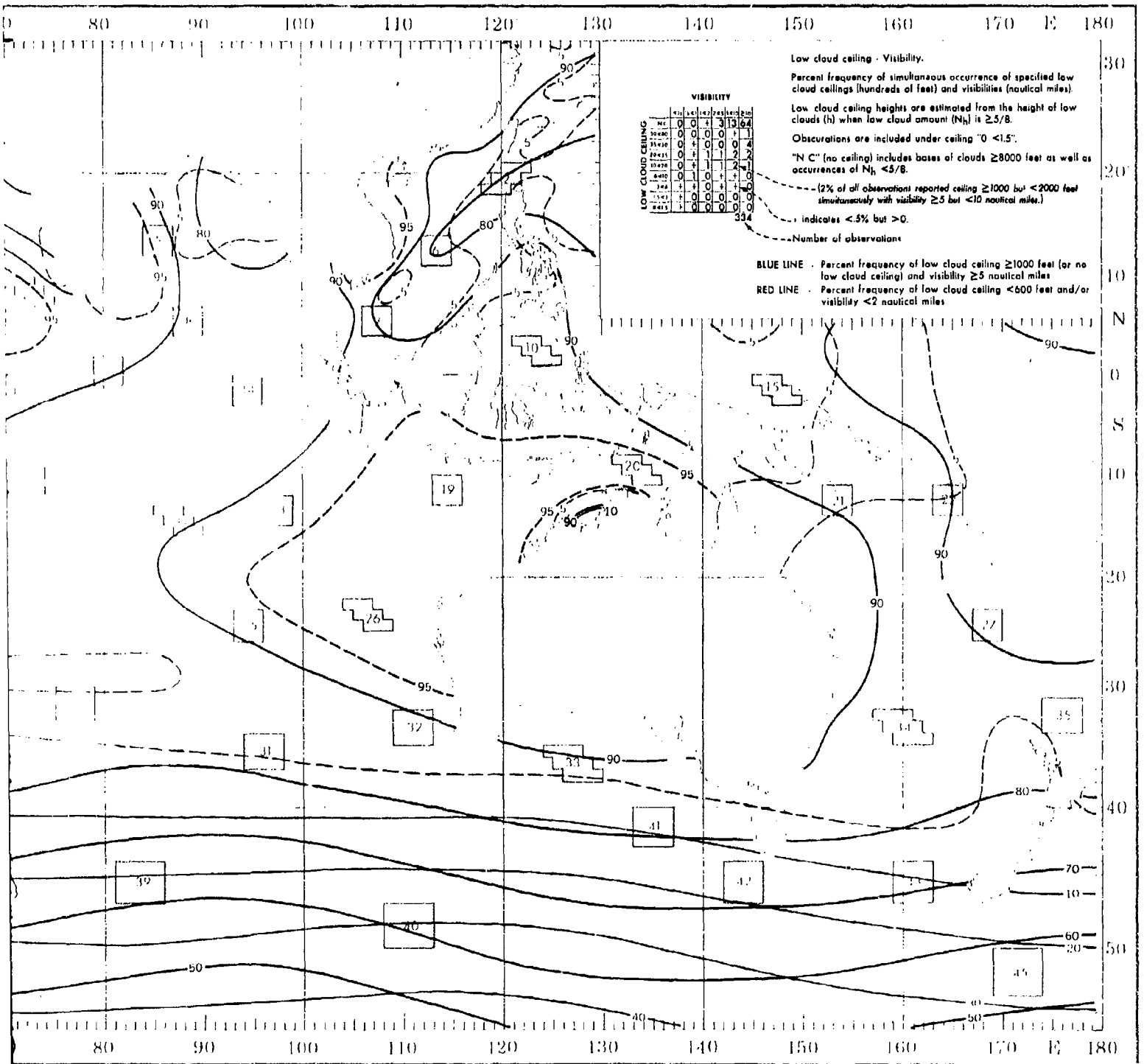
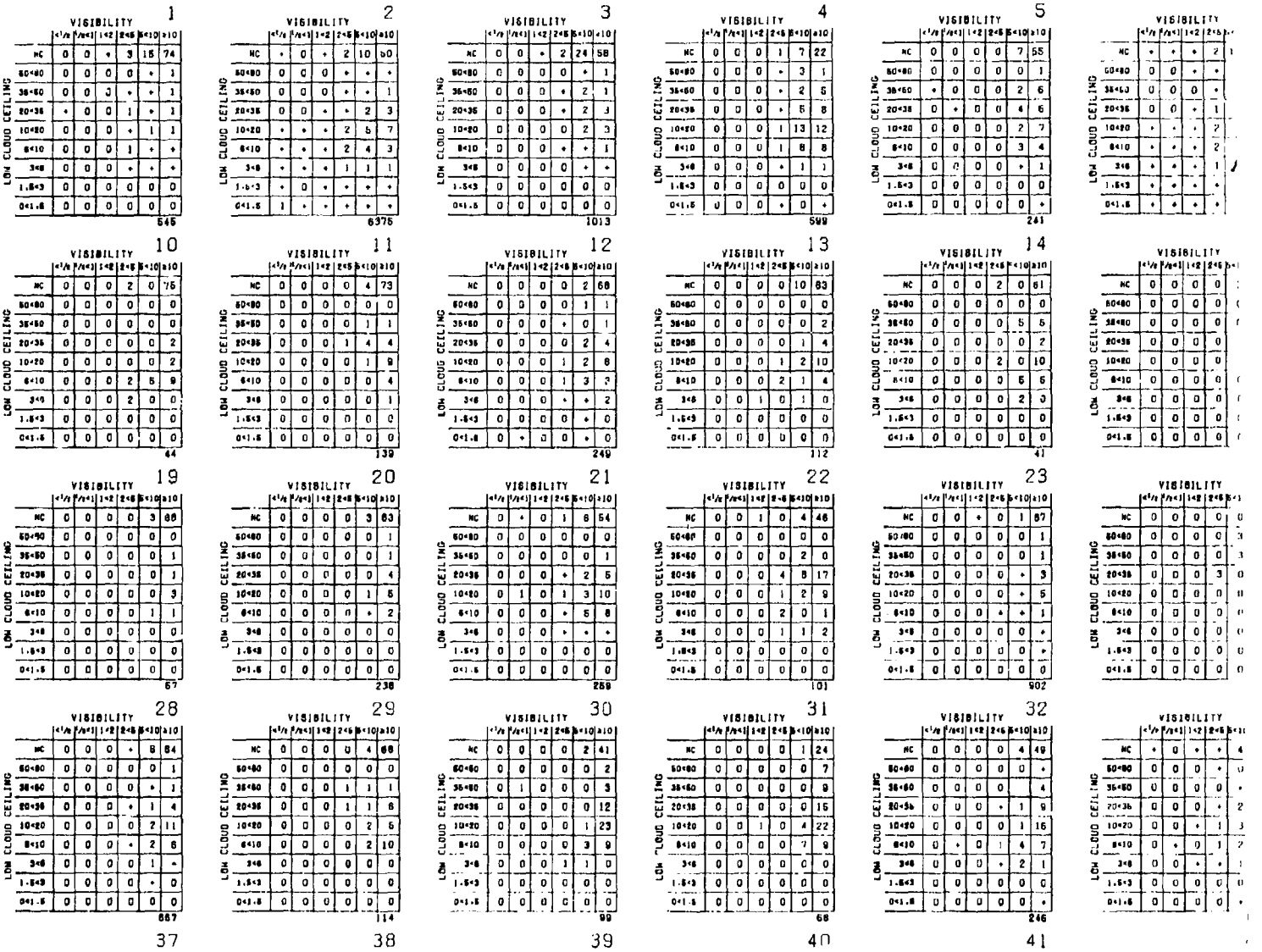
CEILING AND VISIBILITY



CEILING AND VISIBILITY



Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

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4

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	7	22
50-<80	0	0	0	+	3	1
35-<50	0	0	0	+	2	5
20-<35	0	0	0	+	5	8
10-<20	0	0	0	1	13	12
5-<10	0	0	0	1	8	8
3-<5	0	0	0	+	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	+	0	+

599

5

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	55
50-<80	0	0	0	0	0	1
35-<50	+	0	0	0	2	6
20-<35	0	+	0	0	4	6
10-<20	0	0	0	0	2	7
5-<10	0	0	0	0	3	4
3-<5	0	0	0	0	+	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	+

241

6

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	+	2	12	48
50-<80	0	0	+	+	+	+
35-<50	0	0	0	+	+	1
20-<35	0	0	+	1	2	4
10-<20	+	+	+	2	6	8
5-<10	+	+	+	2	5	6
3-<5	+	+	+	1	1	1
1-<3	+	+	+	+	+	+
0-<1	+	+	+	+	+	+

5506

7

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	+	4	72
50-<80	0	0	0	+	+	1
35-<50	+	+	0	+	+	2
20-<35	0	0	+	+	2	3
10-<20	+	0	+	+	2	7
5-<10	0	+	+	+	1	2
3-<5	0	0	+	+	+	+
1-<3	0	0	0	0	+	0
0-<1	0	0	0	+	0	0

1312

8

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	+	5	82
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	+	2
20-<35	0	0	0	+	1	5
10-<20	0	0	0	1	3	9
5-<10	0	0	+	1	3	5
3-<5	+	0	+	+	1	+
1-<3	0	0	0	0	+	+
0-<1	+	+	+	+	+	+

1443

9

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	1	7	80
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	+	2
20-<35	0	0	+	+	2	4
10-<20	0	0	+	1	3	9
5-<10	0	+	+	1	3	3
3-<5	+	0	+	1	1	1
1-<3	0	0	+	+	+	+
0-<1	+	+	+	+	+	+

2420

13

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	10	63
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	1	4
10-<20	0	0	0	1	2	10
5-<10	0	0	0	2	1	-
3-<5	0	0	1	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

112

14

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	0	61
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	5	5
20-<35	0	0	0	0	0	2
10-<20	0	0	0	2	0	10
5-<10	0	0	0	0	5	5
3-<5	0	0	0	0	2	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

41

15

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	74
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	3	6
10-<20	0	0	0	0	3	6
5-<10	0	0	0	0	0	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

66

16

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	59
50-<80	0	0	0	+	0	1
35-<50	0	0	0	0	+	1
20-<35	0	0	0	1	1	5
10-<20	0	0	+	1	4	11
5-<10	0	0	0	1	2	8
3-<5	0	0	0	0	+	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	+	0

348

17

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	8	50
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	3	1
20-<35	0	0	0	0	1	10
10-<20	0	0	0	0	3	16
5-<10	0	0	0	0	2	1
3-<5	0	0	0	0	1	3
1-<3	0	0	0	0	0	1
0-<1	0	0	0	0	1	0

140

18

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	81
50-<80	0	0	0	0	0	7
35-<50	0	0	0	0	0	9
20-<35	0	0	0	0	0	9
10-<20	0	0	0	0	0	7
5-<10	0	0	0	0	2	2
3-<5	0	0	0	0	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

82

22

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	1	0	4	46
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	2	0
20-<35	0	0	0	4	8	17
10-<20	0	0	0	1	2	9
5-<10	0	0	0	2	0	1
3-<5	0	0	0	1	1	2
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

101

23

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	0	1	87
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	+	3
10-<20	0	0	0	0	+	5
5-<10	0	0	0	+	+	1
3-<5	0	0	0	0	0	+
1-<3	0	0	0	0	0	+
0-<1	0	0	0	0	0	0

902

24

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	66
50-<80	0	0	0	0	3	0
35-<50	0	0	0	0	3	0
20-<35	0	0	0	3	0	10
10-<20	0	0	0	0	0	16
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

31

25

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	51
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	0	5
20-<35	0	0	0	0	1	23
10-<20	0	0	0	0	0	9
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	3	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	1

79

26

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	66
50-<80	0	0	0	0	0	5
35-<50	0	0	0	0	0	11
20-<35	0	0	0	0	0	8
10-<20	0	0	0	1	1	15
5-<10	0	0	0	0	1	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

121

27

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	83
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	2
20-<35	0	0	0	1	0	4
10-<20	0	0	0	1	1	17
5-<10	0	0	0	1	0	2
3-<5	0	0	0	0	1	0
1-<3	0	0	0	1	0	0
0-<1	0	0	0	0	0	0

186

31

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	24
50-<80	0	0	0	0	0	7
35-<50	0	0	0	0	0	9
20-<35	0	0	0	0	0	15
10-<20	0	0	0	1	0	22
5-<10	0	0	0	0	0	9
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

68

32

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	49
50-<80	0	0	0	0	0	+
35-<50	0	0	0	0	+	4
20-<35	0	0	0	+	1	9
10-<20	0	0	0	0	1	16
5-<10	0	+	0	1	4	7
3-<5	0	0	0	+	2	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	+

246

33

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	+	4	55
50-<80	0	0	0	+	0	1
35-<50	0	0	0	0	+	7
20-<35	0	0	0	+	2	6
10-<20	0	0	+	1	3	11
5-<10	0	+	0	1	2	4
3-<5	0	0	+	+	1	+
1-<3	0	0	0	0	0	+
0-<1	0	0	0	0	+	0

558

34

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	66
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	1	4
10-<20	0	0	0	+	3	15
5-<10	0	0	+	1	5	8
3-<5	0	0	0	1	0	1
1-<3	0	0	0	0	+	0
0-<1	0	0	0	0	0	0

316

35

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	54
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	1
20-<35	0	0	0	0	1	6
10-<20	0	0	0	0	1	19
5-<10	0	0	1	1	2	8
3-<5	0	0	0	0	0	1
1-<3	0	0	0	1	0	0
0-<1	0	0	0	0	0	0

166

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	55
50-<80	0	0	0	0	2	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	8
10-<20	0	0	0	2	6	15
5-<10	0	0	0	0	6	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

85

44

INSUFFICIENT DATA

45

INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

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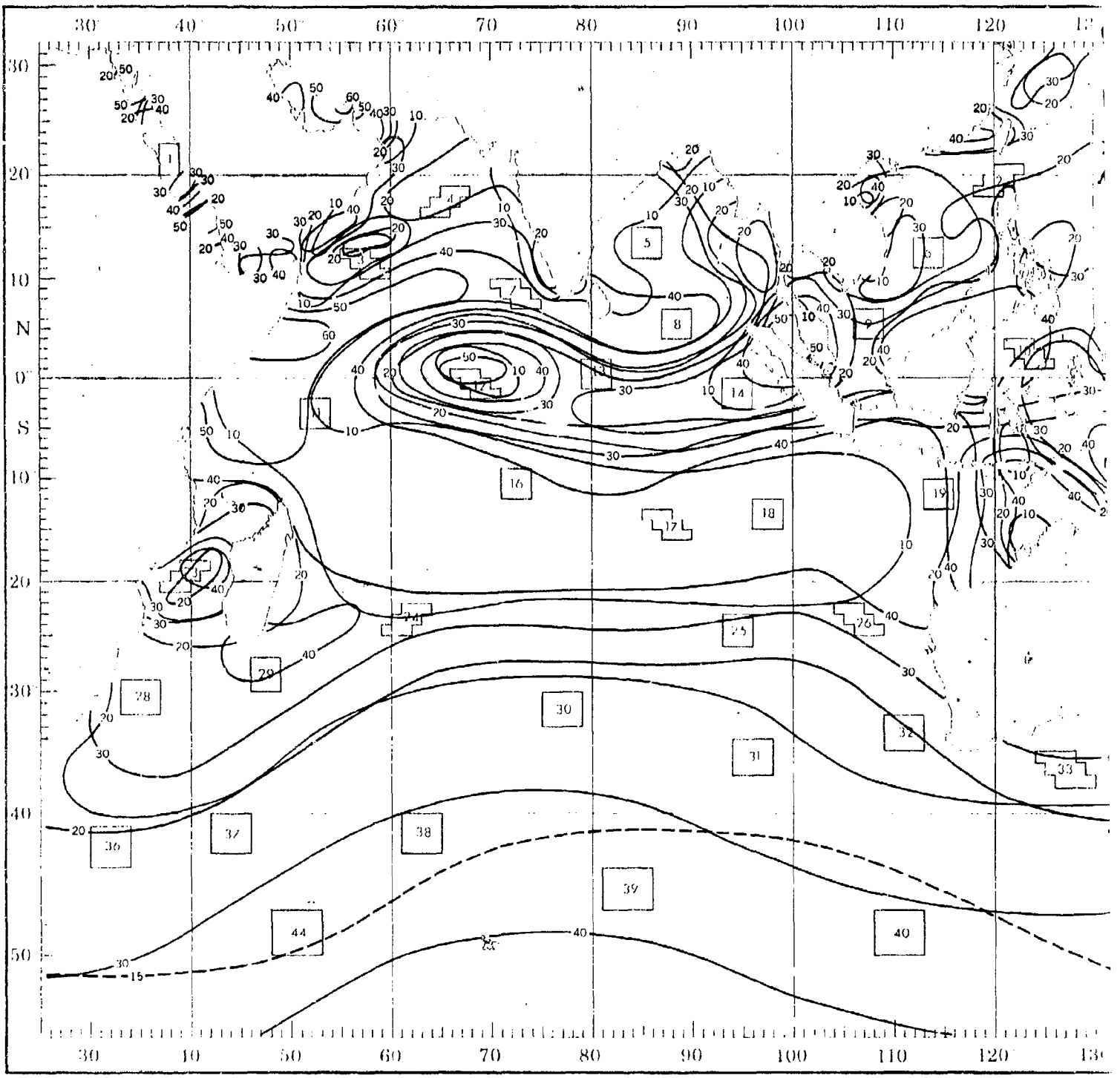
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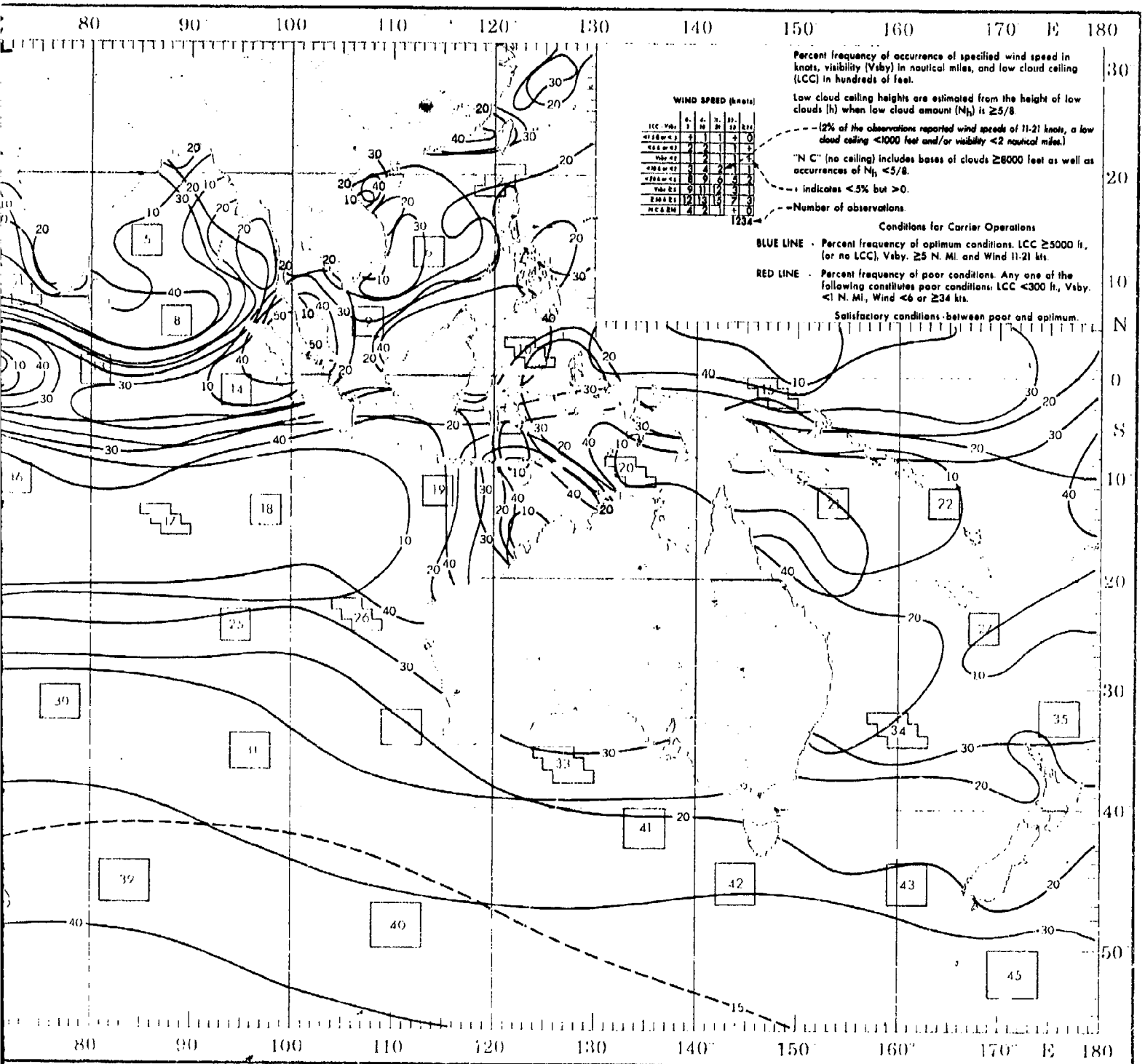
WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<8 & OR <2	+	1	0	0	0
VSBY <2	+	+	0	0	0
<10 & OR <2	1	1	0	0	0
<20 & OR <5	2	3	2	1	0
VSBY ≥5	14	60	29	2	0
≥20 & ≥5	14	47	28	2	0
NC & ≥10	11	39	23	2	0

533

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	1	1	+
<8 & OR <2	+	1	3	2	1
VSBY <2	+	+	1	1	1
<10 & OR <2	1	4	7	4	1
<20 & OR <5	1	8	15	7	2
VSBY ≥5	8	37	34	9	1
≥20 & ≥5	6	28	22	4	+
NC & ≥10	6	24	17	3	+

6335

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	+	0
<10 & OR <2	0	0	1	1	1
<20 & OR <5	0	+	2	5	2
VSBY ≥5	0	1	32	52	13
≥20 & ≥5	0	1	28	44	10
NC & ≥10	0	+	22	29	8

1010

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	0
<8 & OR <2	0	0	1	1	+
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	9	8	+
<20 & OR <5	+	3	24	18	1
VSBY ≥5	+	8	54	30	2
≥20 & ≥5	+	5	20	8	+
NC & ≥10	+	4	15	9	0

599

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<8 & OR <2	0	+	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	6	3	0
<20 & OR <5	0	6	11	4	0
VSBY ≥5	+	31	53	14	1
≥20 & ≥5	+	21	32	7	+
NC & ≥10	0	21	28	6	0

238

WIND SPEED (KNO

LCC - VSBY	0-	4-10	11-	22-33
<1.5 & OR <.5	+	+	1	+
<8 & OR <2	+	1	3	1
VSBY <2	+	+	1	+
<10 & OR <2	+	4	9	3
<20 & OR <5	1	7	19	6
VSBY ≥5	8	28	45	12
≥20 & ≥5	5	21	27	7
NC & ≥10	4	18	21	6

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	12	5	0	0
<20 & OR <5	2	14	7	0	0
VSBY ≥5	12	63	19	0	0
≥20 & ≥5	9	49	16	0	0
NC & ≥10	9	49	16	0	0

43

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	0	0
<20 & OR <5	0	7	9	0	0
VSBY ≥5	4	28	64	4	0
≥20 & ≥5	3	18	53	2	0
NC & ≥10	2	18	50	2	0

138

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	0
<8 & OR <2	0	4	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	2	8	2	0	0
<20 & OR <5	5	14	4	0	0
VSBY ≥5	19	68	9	0	0
≥20 & ≥5	14	50	7	0	0
NC & ≥10	13	48	8	0	0

238

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	4	2	1	0
<20 & OR <5	1	14	4	1	0
VSBY ≥5	5	60	29	2	0
≥20 & ≥5	4	46	22	0	0
NC & ≥10	4	44	16	0	0

112

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	3	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	10	3	0	0
<20 & OR <5	3	20	5	0	0
VSBY ≥5	13	65	18	0	0
≥20 & ≥5	13	43	5	0	0
NC & ≥10	13	43	5	0	0

40

1

WIND SPEED (KNO

LCC - VSBY	0-	4-10	11-	22-33
<1.5 & OR <.5	0	0	0	0
<8 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	3	0	0
<20 & OR <5	2	8	2	0
VSBY ≥5	25	68	17	0
≥20 & ≥5	18	45	14	0
NC & ≥10	18	42	14	0

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	0	0
<20 & OR <5	0	5	2	0	0
VSBY ≥5	5	48	45	2	0
≥20 & ≥5	5	41	44	2	0
NC & ≥10	5	39	42	2	0

66

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	2	0	0
<20 & OR <5	0	1	0	0	0
VSBY ≥5	6	37	57	1	0
≥20 & ≥5	6	33	48	1	0
NC & ≥10	5	32	45	1	0

236

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	1	+	0
VSBY <2	0	1	0	+	0
<10 & OR <2	0	3	10	3	0
<20 & OR <5	0	6	21	5	0
VSBY ≥5	1	24	62	9	0
≥20 & ≥5	1	17	36	5	0
NC & ≥10	1	16	32	6	0

258

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	2	1	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	3	3	0
<20 & OR <5	0	4	14	6	0
VSBY ≥5	1	15	65	10	0
≥20 & ≥5	1	10	37	2	0
NC & ≥10	1	9	35	1	0

101

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	+	+	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	1	+	0
<20 & OR <5	+	3	4	+	0
VSBY ≥5	15	67	25	3	0
≥20 & ≥5	15	52	21	2	0
NC & ≥10	14	51	20	2	0

398

2

WIND SPEED (KNOT

LCC - VSBY	0-	4-10	11-	22-33
<1.5 & OR <.5	0	0	0	0
<8 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	0	0	0
<20 & OR <5	0	7	10	3
VSBY ≥5	7	27	47	17
≥20 & ≥5	3	20	30	17
NC & ≥10	3	20	27	17

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	2	1
<20 & OR <5	+	5	10	6	2
VSBY ≥5	2	23	48	22	4
≥20 & ≥5	2	16	36	16	2
NC & ≥10	2	15	33	13	1

662

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	4	3	0
<20 & OR <5	1	4	8	6	0
VSBY ≥5	4	20	64	19	1
≥20 & ≥5	4	18	42	10	0
NC & ≥10	4	18	39	9	0

113

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	1	2	0	0	0
VSBY <2	1	0	0	0	0
<10 & OR <2	2	6	6	5	0
<20 & OR <5	4	20	11	4	0
VSBY ≥5	12	43	28	13	0
≥20 & ≥5	7	18	13	7	0
NC & ≥10	7	18	9	7	0

99

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	4	9	4	0
<20 & OR <5	1	10	19	17	1
VSBY ≥5	1	32	46	18	1
≥20 & ≥5	0	13	13	8	0
NC & ≥10	0	7	12	4	0

88

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<8 & OR <2	0	2	1	0	+
VSBY <2	0	+	0	0	0
<10 & OR <2	0	6	5	3	1
<20 & OR <5	+	14	11	5	1
VSBY ≥5	4	40	36	16	2
≥20 & ≥5	3	21	21	8	2
NC & ≥10	2	20	19	8	+

245

3

WIND SPEED (KNOT

LCC - VSBY	0-	4-10	11-	22-33
<1.5 & OR <.5	0	+	0	+
<8 & OR <2	+	+	1	+
VSBY <2	0	+	0	+
<10 & OR <2	+	3	4	2
<20 & OR <5	1	7	10	6
VSBY ≥5	5	31	42	16
≥20 & ≥5	3	19	27	10
NC & ≥10	2	18	25	8

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	10	0	0	0
VSBY ≥5	6	52	24	19	0
≥20 & ≥5	0	33	19	14	0
NC & ≥10	0	33	19	10	0

21

4

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

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4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	0
<5 & OR <2	0	0	1	1	+
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	9	6	+
<20 & OR <5	+	3	24	18	1
VSBY ≥5	+	8	54	30	2
≥50 & ≥5	+	5	20	8	+
NC & ≥10	+	4	15	3	0

599

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	+	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	5	3	0
<20 & OR <5	0	5	11	4	0
VSBY ≥5	+	31	53	14	1
≥50 & ≥5	+	21	32	7	+
NC & ≥10	0	21	28	5	0

238

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	1	+	+
<5 & OR <2	+	1	3	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	+	4	9	3	+
<20 & OR <5	1	7	19	8	+
VSBY ≥5	8	28	45	12	+
≥50 & ≥5	5	21	27	7	+
NC & ≥10	4	18	21	5	+

5482

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	0	+	0	0
<5 & OR <2	+	+	1	+	0
VSBY <2	+	+	1	+	0
<10 & OR <2	+	1	3	1	+
<20 & OR <5	+	5	11	2	+
VSBY ≥5	1	40	51	4	+
≥50 & ≥5	1	34	39	2	0
NC & ≥10	1	33	36	2	0

1302

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	1	+	0
<5 & OR <2	0	+	2	+	0
VSBY <2	0	+	+	+	0
<10 & OR <2	+	2	7	1	+
<20 & OR <5	+	5	17	2	+
VSBY ≥5	1	19	71	7	+
≥50 & ≥5	+	14	50	4	0
NC & ≥10	+	13	45	3	0

1459

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	+	+	+
<5 & OR <2	+	1	2	1	+
VSBY <2	0	+	+	+	0
<10 & OR <2	1	4	8	1	+
<20 & OR <5	1	11	11	1	+
VSBY ≥5	9	50	35	2	0
≥50 & ≥5	8	37	23	1	0
NC & ≥10	7	33	20	+	0

2398

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	2	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	4	2	1	0
<20 & OR <5	1	14	4	1	0
VSBY ≥5	5	80	29	7	0
≥50 & ≥5	4	46	22	0	0
NC & ≥10	4	44	16	0	0

112

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	3	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	10	3	0	0
<20 & OR <5	3	20	5	0	0
VSBY ≥5	13	65	18	0	0
≥50 & ≥5	13	43	5	0	0
NC & ≥10	13	43	5	0	0

40

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	0	0	0
<20 & OR <5	2	8	2	0	0
VSBY ≥5	25	58	17	0	0
≥50 & ≥5	18	45	14	0	0
NC & ≥10	18	42	14	0	0

85

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	0	+	1	0
VSBY <2	0	0	0	+	0
<10 & OR <2	0	1	8	2	0
<20 & OR <5	+	1	20	8	1
VSBY ≥5	2	15	64	14	1
≥50 & ≥5	1	13	41	8	+
NC & ≥10	1	13	38	7	+

346

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	1	0
<5 & OR <2	0	0	3	3	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	8	0
<20 & OR <5	0	0	11	17	0
VSBY ≥5	0	8	55	38	1
≥50 & ≥5	0	6	33	18	1
NC & ≥10	0	5	28	16	1

140

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	4	0
<20 & OR <5	0	1	7	5	0
VSBY ≥5	0	20	62	18	0
≥50 & ≥5	0	17	43	10	0
NC & ≥10	0	15	37	10	0

82

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	2	2	1	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	3	3	0
<20 & OR <5	0	4	14	6	0
VSBY ≥5	1	15	65	10	0
≥50 & ≥5	1	10	37	2	0
NC & ≥10	1	9	35	1	0

101

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	+	+	+	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	1	+	0
<20 & OR <5	+	3	4	+	0
VSBY ≥5	15	57	25	3	0
≥50 & ≥5	15	52	21	2	0
NC & ≥10	14	51	20	2	0

888

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	7	10	3	0
VSBY ≥5	7	27	47	17	0
≥50 & ≥5	3	20	30	17	0
NC & ≥10	3	20	27	17	0

30

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<5 & OR <2	0	1	3	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	0	0
<20 & OR <5	1	6	8	0	0
VSBY ≥5	6	38	47	9	0
≥50 & ≥5	4	24	24	8	0
NC & ≥10	4	22	22	4	0

79

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	2	0	0
<20 & OR <5	2	6	12	1	0
VSBY ≥5	6	38	62	4	0
≥50 & ≥5	3	26	30	3	0
NC & ≥10	3	23	28	3	0

120

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	3	3	1	1
<20 & OR <5	1	8	15	3	1
VSBY ≥5	3	34	52	8	1
≥50 & ≥5	3	26	33	6	0
NC & ≥10	3	24	32	6	0

164

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	4	9	4	0
<20 & OR <5	1	10	19	12	1
VSBY ≥5	1	32	46	18	1
≥50 & ≥5	0	13	13	8	0
NC & ≥10	0	7	12	4	0

68

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	0	2	1	0	+
VSBY <2	0	+	0	0	0
<10 & OR <2	0	6	5	3	1
<20 & OR <5	+	14	11	8	1
VSBY ≥5	4	40	36	16	2
≥50 & ≥5	3	21	21	8	2
NC & ≥10	2	20	19	8	+

245

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	+	0
<5 & OR <2	+	+	1	+	0
VSBY <2	0	+	+	+	0
<10 & OR <2	+	3	4	2	+
<20 & OR <5	1	7	10	5	1
VSBY ≥5	5	31	42	15	3
≥50 & ≥5	3	19	27	10	1
NC & ≥10	2	18	25	8	1

853

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	1	+
VSBY <2	0	0	0	0	+
<10 & OR <2	0	1	7	5	1
<20 & OR <5	+	5	18	8	2
VSBY ≥5	3	24	52	18	2
≥50 & ≥5	2	17	31	10	+
NC & ≥10	2	16	29	9	+

313

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	5	9	1	0
<20 & OR <5	1	10	18	5	0
VSBY ≥5	4	34	46	12	1
≥50 & ≥5	3	21	27	5	1
NC & ≥10	2	21	25	5	1

184

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	10	0	0	0
VSBY ≥5	6	62	24	19	0
≥50 & ≥5	0	33	19	14	0
NC & ≥10	0	33	19	10	0

21

INSUFFICIENT DATA

42

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	6	0	0
<20 & OR <5	2	2	18	8	2
VSBY ≥5	5	23	45	18	6
≥50 & ≥5	0	22	23	17	5
NC & ≥10	0	20	22	9	5

88

INSUFFICIENT DATA

44

INSUFFICIENT DATA

45

INSUFFICIENT DATA

ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

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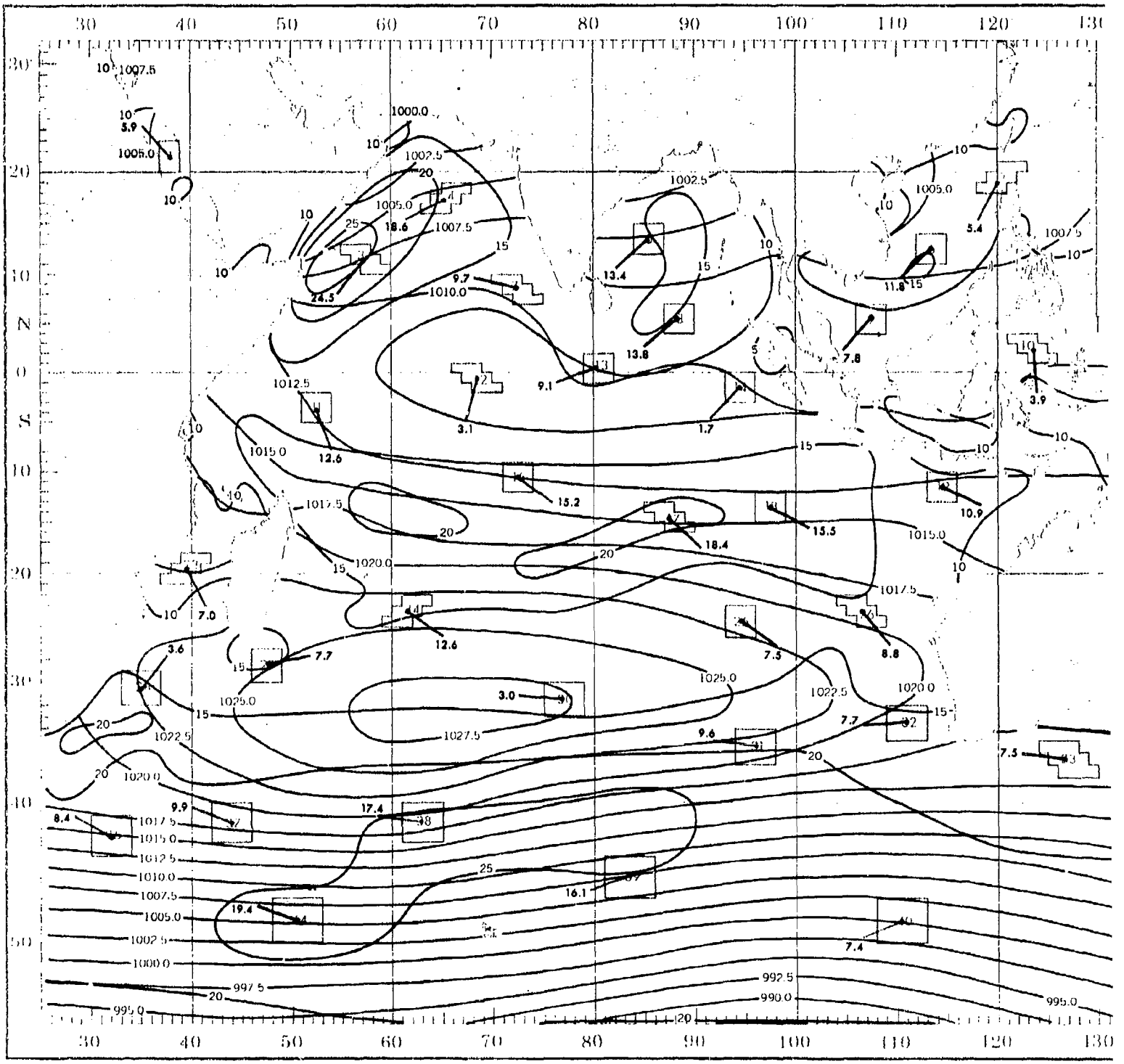
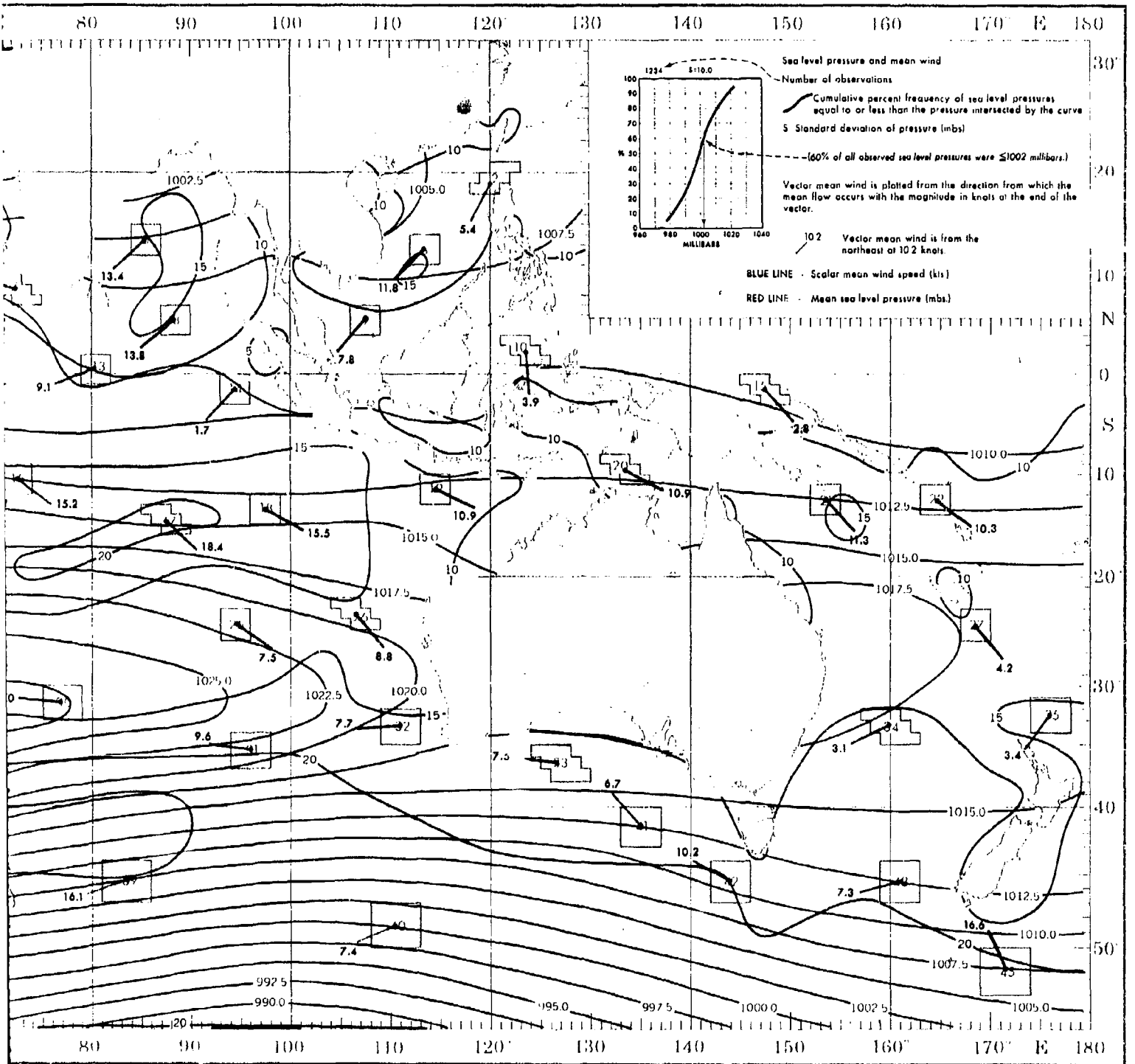
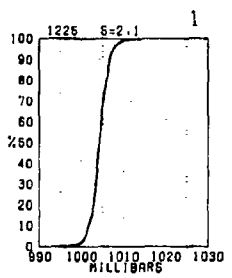
SEA LEVEL PR

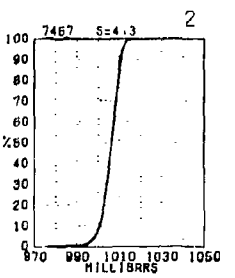


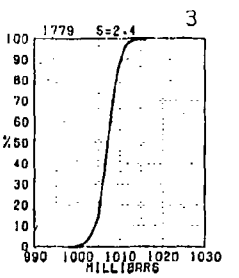
SEA LEVEL PRESSURE AND MEAN WIND

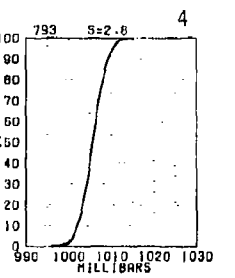


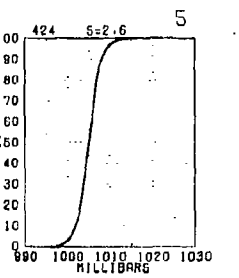
SEA LEVEL PRESSURE

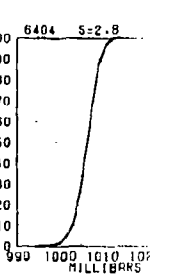


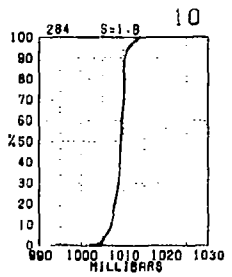


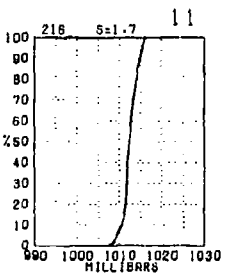


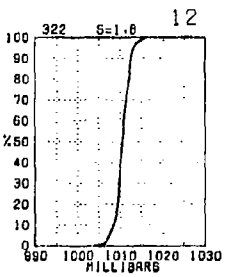


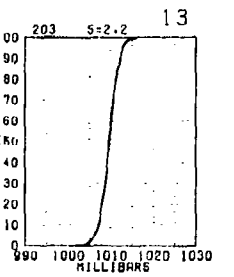


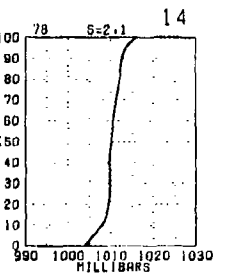


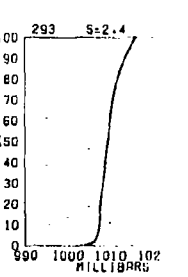


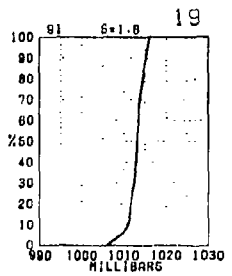


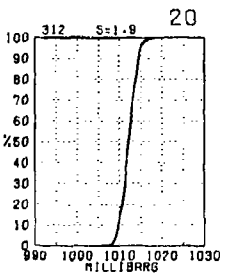


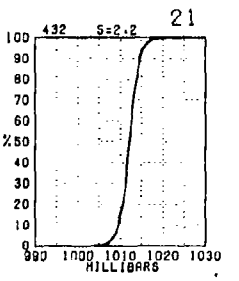


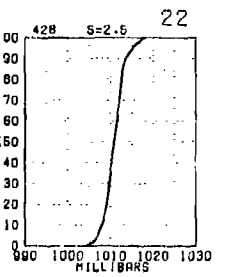


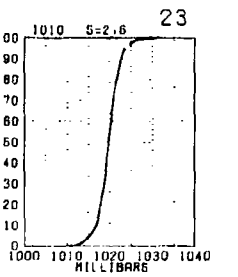


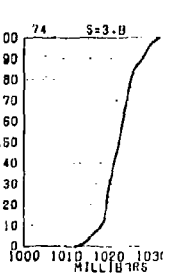


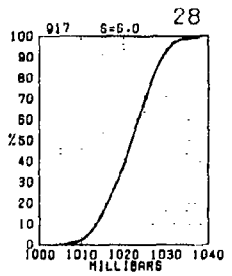


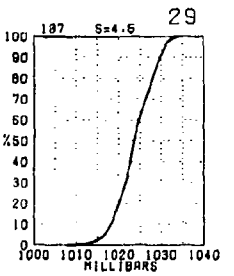


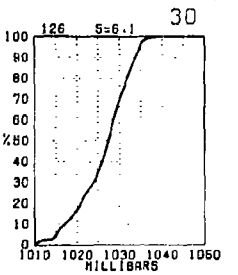


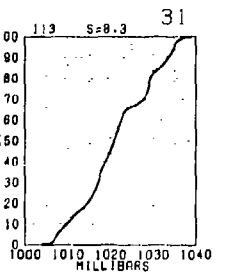


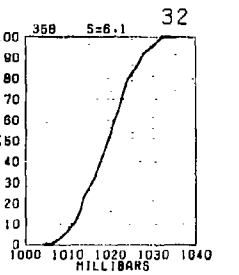


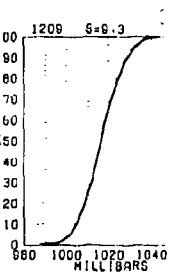


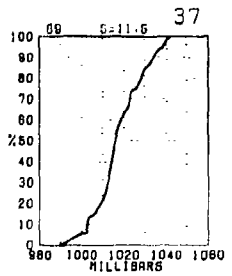


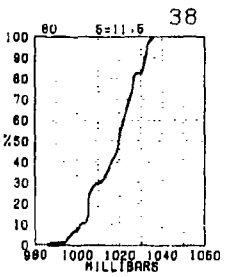


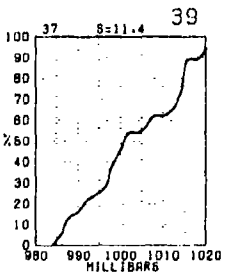












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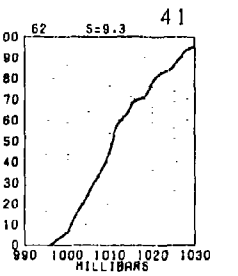
INSUFFICIENT DATA



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Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

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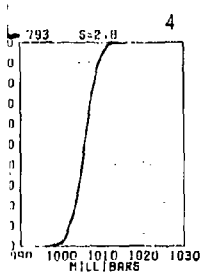

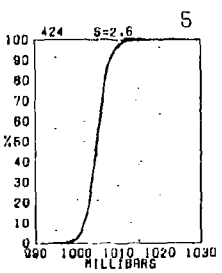

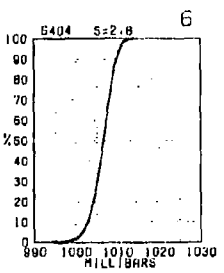

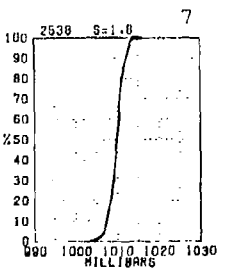

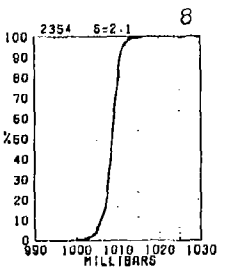

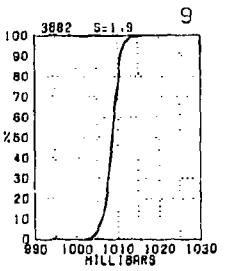

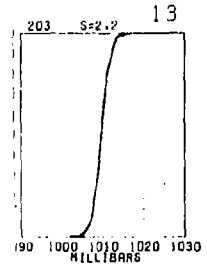

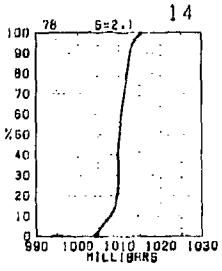

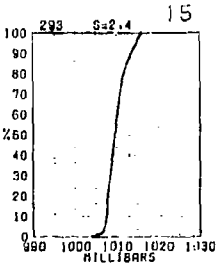

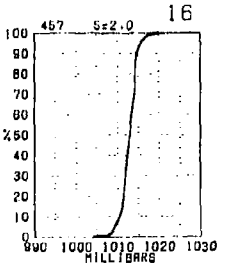

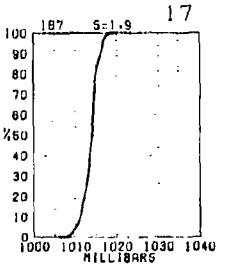

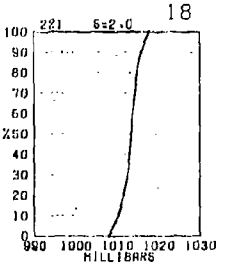

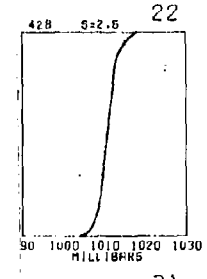

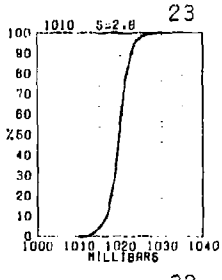

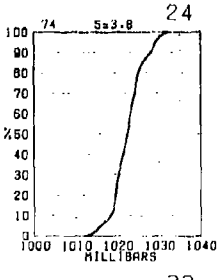

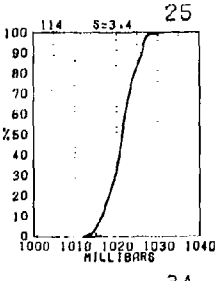

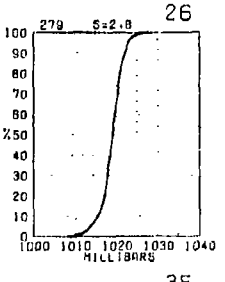

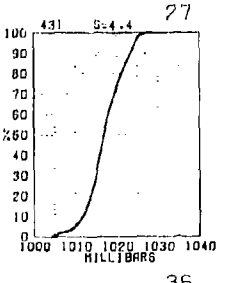

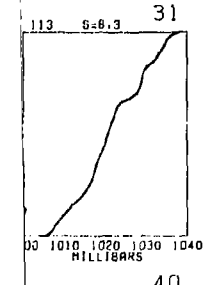

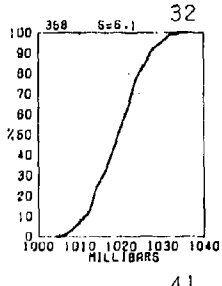

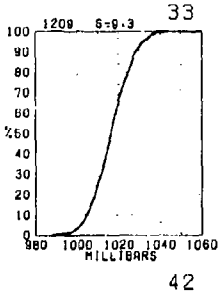

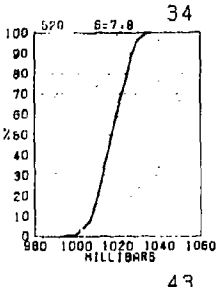

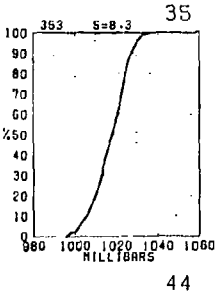

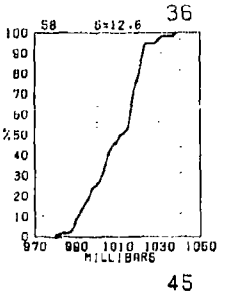

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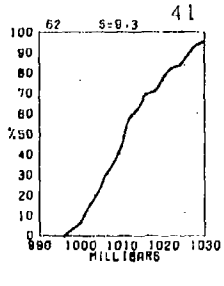

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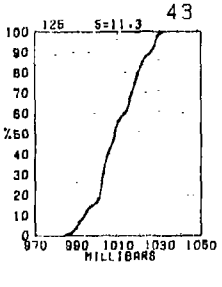

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INSUFFICIENT DATA

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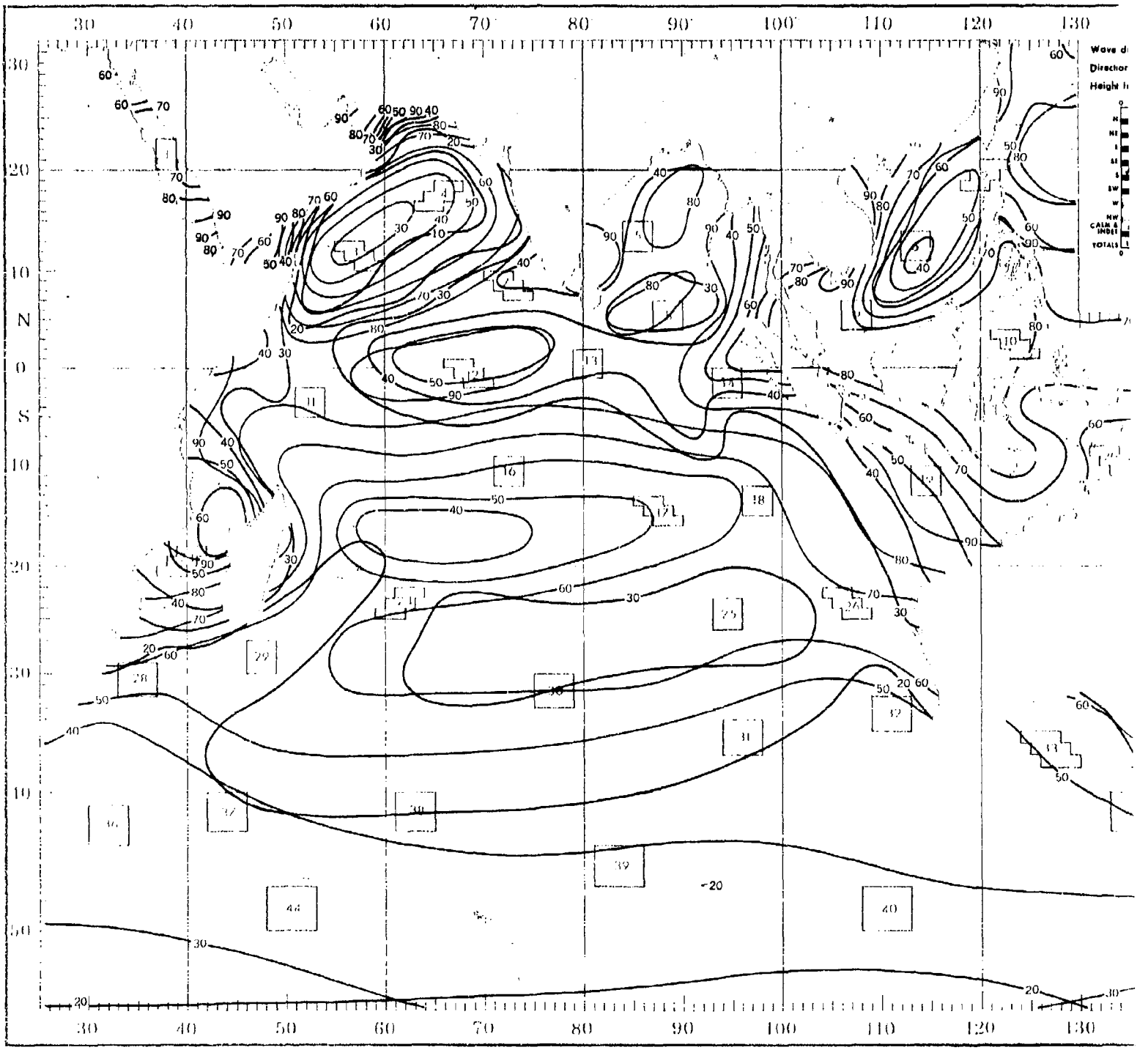
INSUFFICIENT DATA

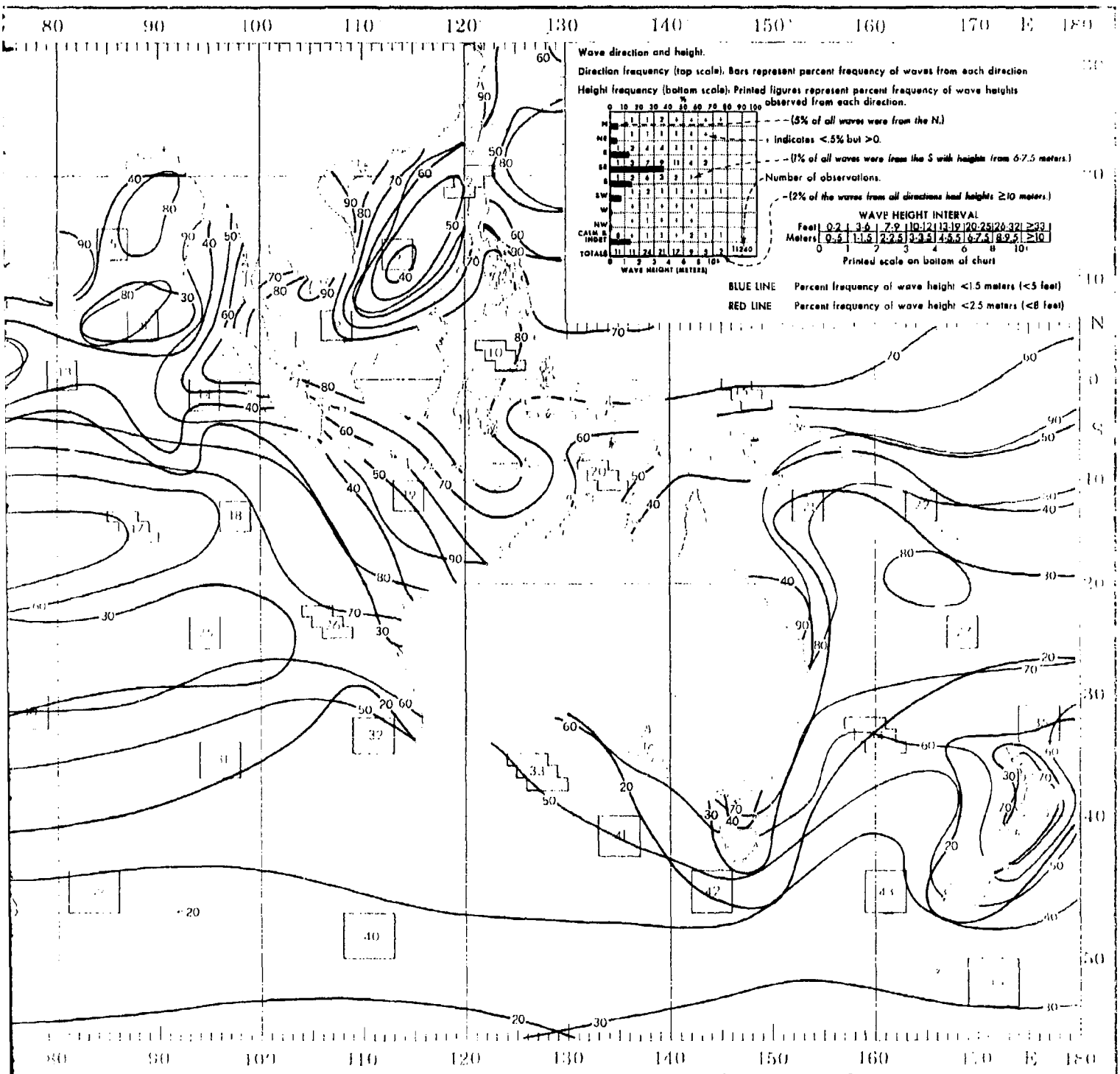
ve compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

AUGUST

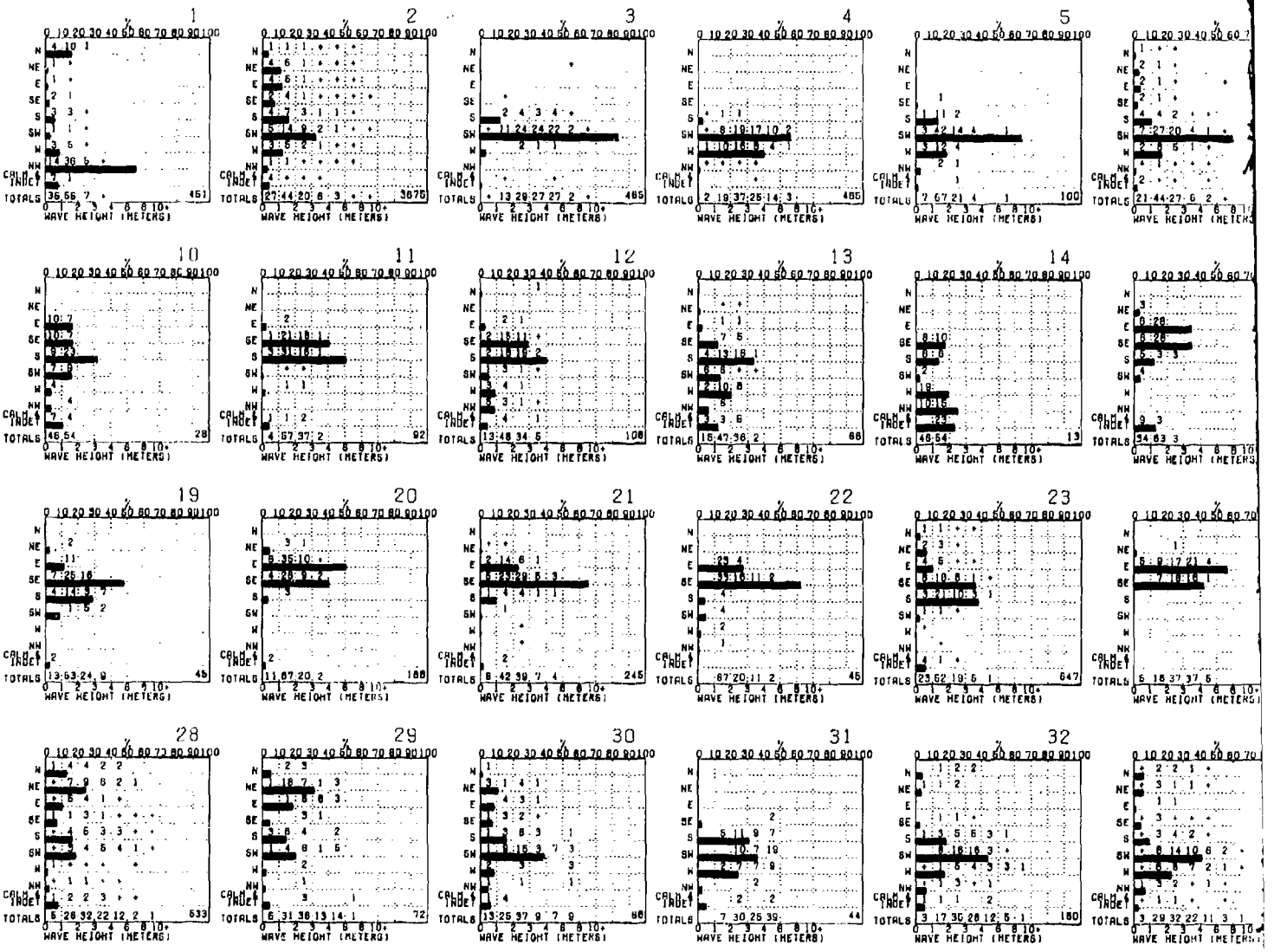
WAVES (



WAVES (<1.5 AND <2.5 METERS)

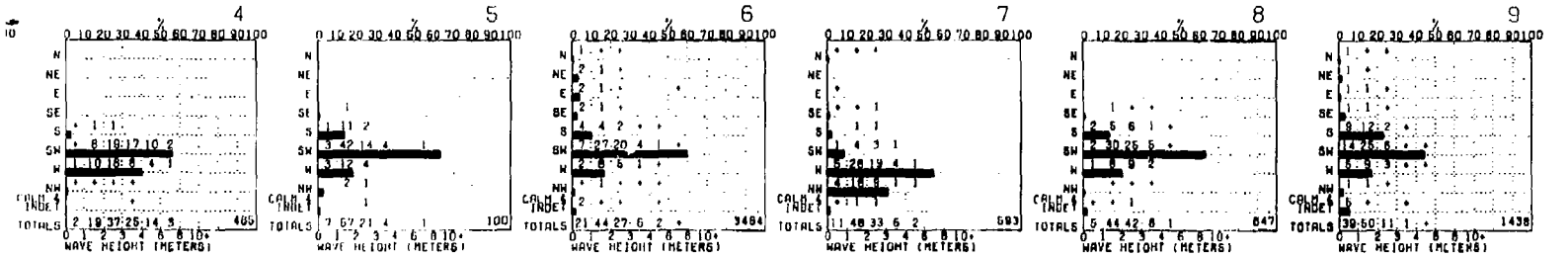


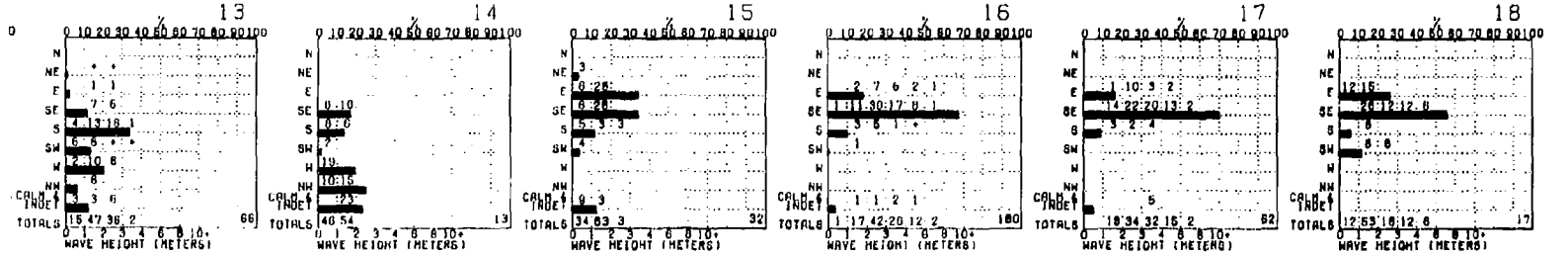
WAVE DIRECTION AND HEIGHT

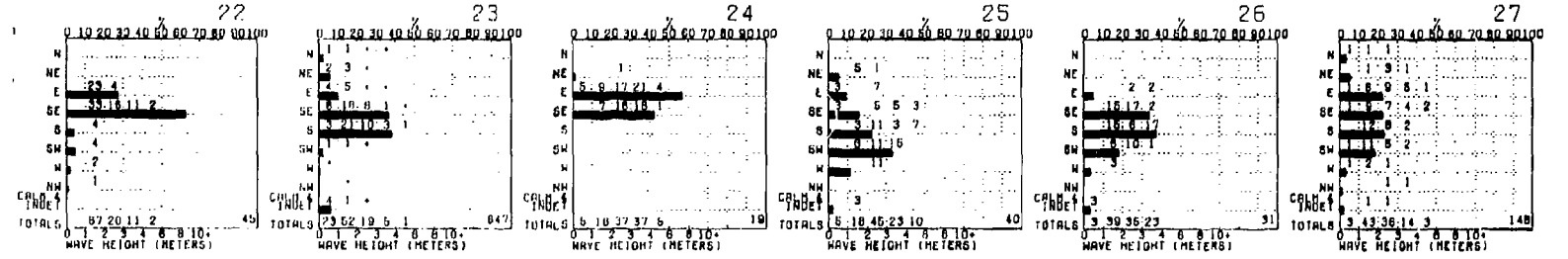


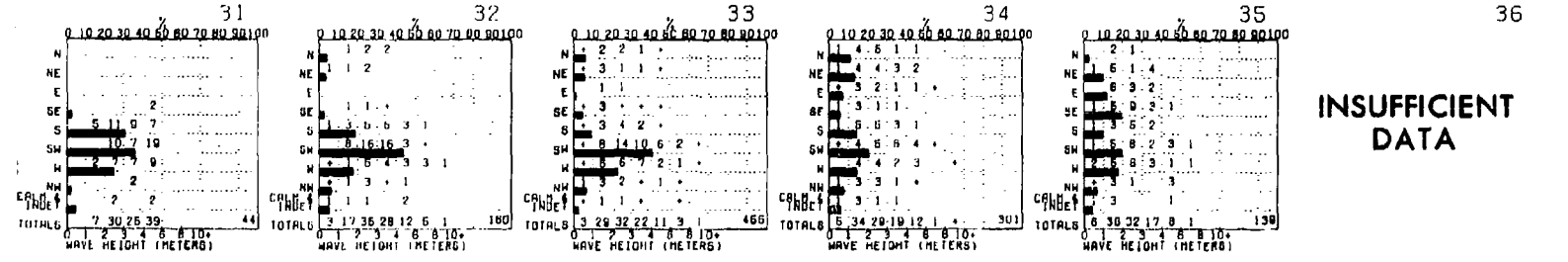
INSUFFICIENT DATA | **INSUFFICIENT DATA** | **INSUFFICIENT DATA** | **INSUFFICIENT DATA** | **INSUFFICIENT DATA** | **INSUFFICIEN DATA**

Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj





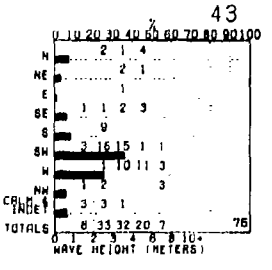




40 INSUFFICIENT DATA

41 INSUFFICIENT DATA

42 INSUFFICIENT DATA

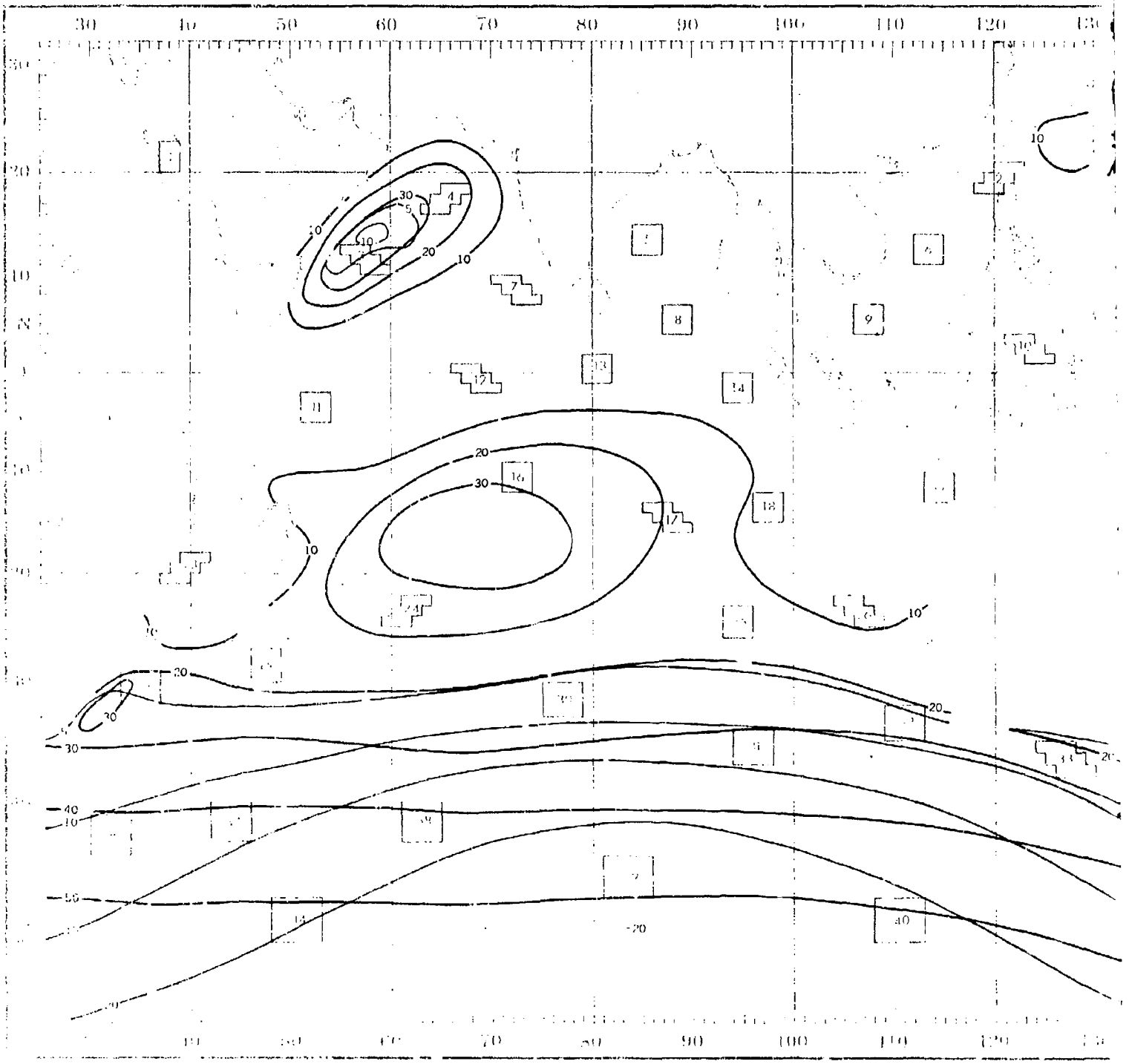


44 INSUFFICIENT DATA

45 INSUFFICIENT DATA

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

AUGUST WAVE



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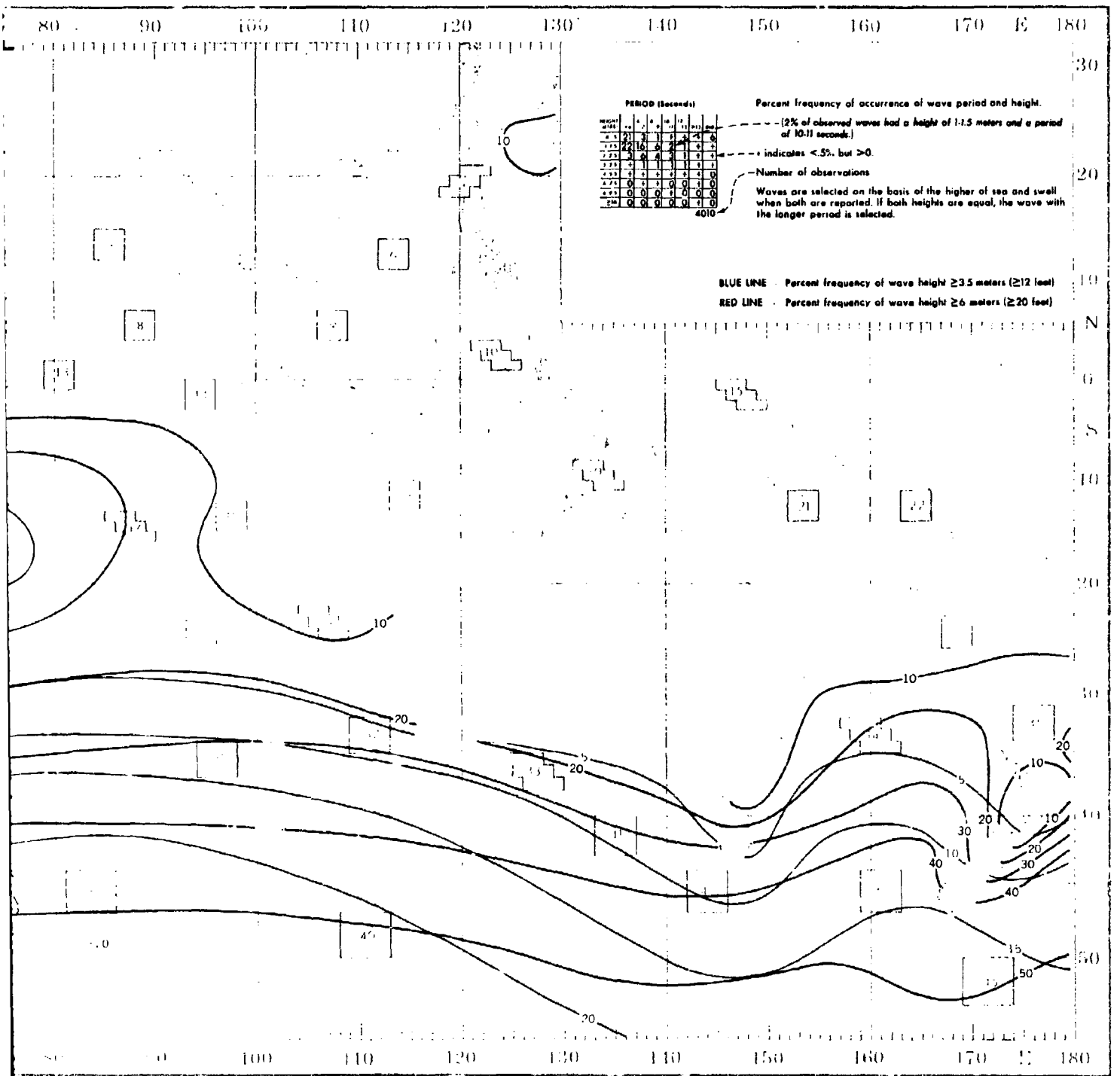
WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	29	1	0	+	0	0	14
1-3.5	33	11	2	1	0	0	3
4-7.5	2	3	+	1	0	0	+
8-13.5	0	+	+	0	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

516

2

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	24	2	1	+	0	0	4
1-3.5	21	16	4	1	+	+	1
4-7.5	5	8	5	3	+	+	+
8-13.5	+	1	2	1	+	+	+
14-19.5	+	1	1	1	+	+	0
20-25.5	0	+	+	+	+	+	+
26-31.5	0	0	0	+	0	0	0
>31.5	0	0	0	0	0	0	0

3864

3

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	+	+	0	0	0	0	0
1-3.5	3	5	2	+	0	1	3
4-7.5	3	8	10	2	0	1	5
8-13.5	1	6	10	5	3	+	2
14-19.5	2	4	8	6	5	1	1
20-25.5	0	+	1	0	+	+	0
26-31.5	0	0	+	0	0	0	0
>31.5	0	0	0	0	0	0	0

488

4

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	1	0	0	0	0	0	1
1-3.5	6	7	2	1	1	0	2
4-7.5	3	12	13	4	2	1	1
8-13.5	1	4	6	8	3	2	1
14-19.5	+	2	4	4	3	+	1
20-25.5	0	+	1	1	0	+	1
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

485

5

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	7	0	0	0	0	0	0
1-3.5	29	27	9	2	0	0	0
4-7.5	1	15	9	1	0	0	1
8-13.5	0	1	1	2	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	1	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

100

14

INSUFFICIENT DATA

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13
0-1.5	21	1	+	+	0
1-3.5	20	16	4	+	+
4-7.5	4	10	9	3	1
8-13.5	+	2	2	1	+
14-19.5	+	+	1	+	+
20-25.5	0	+	+	+	0
26-31.5	0	0	0	0	0
>31.5	0	0	0	0	0

10

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	42	3	0	0	0	0	5
1-3.5	19	23	3	0	0	0	3
4-7.5	0	0	0	0	0	0	0
8-13.5	0	0	0	0	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

31

11

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	8	0	0	0	0	0	0
1-3.5	31	18	3	0	2	0	1
4-7.5	6	9	13	1	1	5	3
8-13.5	0	1	0	1	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

94

12

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	12	2	0	0	0	0	4
1-3.5	6	17	13	3	1	1	5
4-7.5	0	11	11	10	0	0	0
8-13.5	0	0	4	0	0	0	1
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

114

13

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	12	0	0	0	0	0	3
1-3.5	14	21	5	0	2	0	6
4-7.5	3	12	6	9	0	0	6
8-13.5	0	0	2	0	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

66

INSUFFICIENT DATA

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13
0-1.5	24	3	0	0	0	0
1-3.5	38	18	6	0	0	0
4-7.5	0	3	0	0	0	0
8-13.5	0	0	0	0	0	0
14-19.5	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0
>31.5	0	0	0	0	0	0

19

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	9	4	0	0	0	0	2
1-3.5	28	17	7	2	0	0	0
4-7.5	4	4	15	0	0	0	0
8-13.5	0	0	2	2	4	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

46

20

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	10	1	0	0	0	0	1
1-3.5	40	21	4	0	1	1	1
4-7.5	4	11	3	1	1	0	0
8-13.5	0	1	1	1	0	0	0
14-19.5	0	0	0	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

188

21

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	7	2	0	0	0	0	0
1-3.5	15	18	5	1	1	0	1
4-7.5	6	17	13	5	0	0	0
8-13.5	+	4	2	1	0	0	0
14-19.5	0	1	2	+	+	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

247

22

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	0	0	0	0	0	0	0
1-3.5	18	29	20	0	0	0	0
4-7.5	2	7	9	2	0	0	0
8-13.5	2	0	2	7	0	0	0
14-19.5	0	0	2	0	0	0	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

45

23

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	17	2	1	+	0	0	7
1-3.5	21	13	6	2	3	+	4
4-7.5	3	8	4	1	1	+	1
8-13.5	+	1	1	1	+	+	0
14-19.5	0	+	+	+	0	+	0
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

680

2

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13
0-1.5	5	0	0	0	0	0
1-3.5	5	5	5	0	0	0
4-7.5	5	21	11	0	0	0
8-13.5	0	0	5	5	26	0
14-19.5	0	0	0	0	5	0
20-25.5	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0
>31.5	0	0	0	0	0	0

28

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	3	+	0	0	0	0	2
1-3.5	11	5	5	2	+	0	3
4-7.5	1	11	8	6	1	1	3
8-13.5	1	7	8	4	1	+	3
14-19.5	1	2	4	3	2	+	+
20-25.5	0	+	1	+	0	+	+
26-31.5	0	0	0	0	+	+	0
>31.5	0	0	0	0	0	0	0

536

29

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	4	0	0	0	0	0	1
1-3.5	14	8	4	1	0	0	3
4-7.5	3	11	14	0	6	0	3
8-13.5	0	4	1	1	1	0	4
14-19.5	1	1	3	7	0	0	1
20-25.5	1	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

72

30

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	7	0	1	0	0	0	4
1-3.5	6	9	1	3	0	1	4
4-7.5	4	12	7	13	0	0	0
8-13.5	0	1	1	6	0	0	0
14-19.5	0	0	6	0	1	0	0
20-25.5	0	4	0	3	0	1	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

88

31

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	0	0	0	0	0	0	0
1-3.5	2	8	0	0	0	0	0
4-7.5	0	9	14	6	0	0	2
8-13.5	0	5	11	2	5	2	0
14-19.5	0	0	9	9	7	11	2
20-25.5	0	0	0	0	0	0	0
26-31.5	0	0	0	0	0	0	0
>31.5	0	0	0	0	0	0	0

44

32

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13	IND
0-1.5	2	0	0	0	0	0	2
1-3.5	6	3	4	2	1	0	1
4-7.5	1	6	13	6	6	1	2
8-13.5	1	4	6	7	7	2	1
14-19.5	0	0	2	2	4	1	2
20-25.5	0	0	1	1	3	1	0
26-31.5	0	0	0	0	0	1	0
>31.5	0	0	0	0	0	0	0

162

3

PERIOD (SECONDS)

HEIGHT (FEET)	6-	8-	10-	12-	>13
0-1.5	2	0	+	+	0	0
1-3.5	10	10	6	2	1	0
4-7.5	2	6	11	5	5	1
8-13.5	1	3	5	6	4	1
14-19.5	0	1	2	3	2	2
20-25.5	0	0	+	2	1	+
26-31.5	0	0	+	0	+	0
>31.5	0	0	0	0	0	0

37

38

39

40

41

4

INSUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

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Graphs represent the objective compilation of available data for specified areas without

The isopleth analyses (opposite page) are based on all available data subjectively adju

AUGUST

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	1
1-1.5	6	7	2	1	1	0	2
2-2.5	3	12	13	4	2	1	1
3-3.5	1	4	6	8	3	2	1
4-4.5	+	2	4	4	3	+	1
5-7.5	0	+	1	1	0	+	1
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

465

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	7	0	0	0	0	0	0
1-1.5	29	27	9	2	0	0	0
2-2.5	1	15	3	1	0	0	1
3-3.5	0	1	1	2	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	1	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

100

6

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	1	+	+	0	0	3
1-1.5	20	15	4	+	+	+	+
2-2.5	4	10	9	3	1	+	+
3-3.5	+	2	2	1	+	+	+
4-4.5	+	+	1	+	+	+	+
5-7.5	0	+	+	+	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

3608

7

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	2	+	+	0	0	4
1-1.5	15	18	7	2	1	0	5
2-2.5	2	12	12	4	1	+	2
3-3.5	0	3	1	1	1	1	+
4-4.5	+	0	+	1	+	+	1
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

598

8

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	1	0	+	0	0	2
1-1.5	16	18	5	1	1	+	2
2-2.5	5	14	13	6	1	1	2
3-3.5	+	2	2	2	1	1	+
4-4.5	0	+	0	0	+	+	+
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

854

9

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	33	2	+	0	0	0	8
1-1.5	26	16	3	+	+	0	2
2-2.5	1	6	3	1	+	0	+
3-3.5	+	+	+	+	0	0	+
4-4.5	0	0	+	0	+	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

1643

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	12	0	0	0	0	0	3
1-1.5	14	21	5	0	2	0	5
2-2.5	3	12	6	9	0	0	6
3-3.5	0	0	2	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

66

INSUFFICIENT DATA

14

15

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	24	3	0	0	0	0	9
1-1.5	36	18	8	0	0	0	0
2-2.5	0	3	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

33

16

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	1
1-1.5	4	5	6	0	0	0	2
2-2.5	2	12	19	6	2	0	2
3-3.5	1	1	12	6	3	1	3
4-4.5	0	2	2	4	0	2	2
5-7.5	0	0	0	1	1	1	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

180

17

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	2	11	5	0	0	0	0
2-2.5	5	15	8	2	5	0	0
3-3.5	3	3	6	10	5	0	5
4-4.5	0	2	3	6	3	0	0
5-7.5	0	0	0	2	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

62

INSUFFICIENT DATA

18

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	18	29	20	0	0	0	0
2-2.5	2	7	8	2	0	0	0
3-3.5	2	0	2	7	0	0	0
4-4.5	0	0	2	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

45

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	17	2	1	+	0	0	7
1-1.5	21	13	6	2	3	+	4
2-2.5	3	8	4	1	1	+	1
3-3.5	+	1	1	1	+	+	0
4-4.5	0	+	+	+	0	+	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

680

24

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	0	0	0	0	0
1-1.5	5	5	5	0	0	0	0
2-2.5	5	21	11	0	0	0	0
3-3.5	0	0	5	5	26	0	0
4-4.5	0	0	0	0	5	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

19

25

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	11	0	0	0	0	0	2
1-1.5	0	5	0	0	5	5	2
2-2.5	0	2	20	9	2	5	2
3-3.5	0	2	7	7	5	0	0
4-4.5	0	2	2	0	2	2	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

44

26

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	3
1-1.5	13	10	18	0	0	0	0
2-2.5	0	10	13	6	3	0	3
3-3.5	0	0	6	6	3	8	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

31

27

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	1	0	0	0	0	0
1-1.5	9	19	7	5	1	0	1
2-2.5	5	9	15	3	1	1	1
3-3.5	1	3	6	3	1	0	0
4-4.5	0	1	1	0	1	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

149

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	2	5	0	0	0	0	0
2-2.5	0	9	14	5	0	0	2
3-3.5	0	5	11	2	5	2	0
4-4.5	0	0	0	9	9	7	11	2
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

44

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	2
1-1.5	6	3	4	2	1	0	1
2-2.5	1	6	13	6	6	1	2
3-3.5	1	4	6	7	7	2	1
4-4.5	0	0	2	2	4	1	2
5-7.5	0	0	1	1	3	1	0
8-9.5	0	0	0	0	0	1	0
≥10	0	0	0	0	0	0	0

182

33

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	+	+	0	0	1
1-1.5	10	10	6	2	1	0	1
2-2.5	2	6	11	5	5	1	2
3-3.5	1	3	5	6	4	1	1
4-4.5	0	1	2	3	2	2	0
5-7.5	0	0	+	2	1	+	+
8-9.5	0	0	+	0	+	0	0
≥10	0	0	0	0	0	0	0

480

34

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	+	0	0	0	0	1
1-1.5	11	15	4	+	0	+	3
2-2.5	4	10	9	3	1	1	1
3-3.5	1	9	5	1	1	+	1
4-4.5	1	4	5	2	+	0	0
5-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	0	0	+	0
≥10	0	0	0	0	0	0	0

305

35

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	1	0	0	0	1
1-1.5	14	12	3	0	1	1	4
2-2.5	2	11	10	4	3	1	2
3-3.5	1	4	8	4	1	1	1
4-4.5	1	4	1	1	1	1	0
5-7.5	0	0	0	1	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

141

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

43

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	3	3	0	0	0	0	3
2-2.5	1	8	11	5	4	0	4
3-3.5	4	7	11	4	3	0	4
4-4.5	0	5	11	1	1	0	1
5-7.5	0	0	0	1	0	0	5
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

75

INSUFFICIENT DATA

44

45

INSUFFICIENT DATA

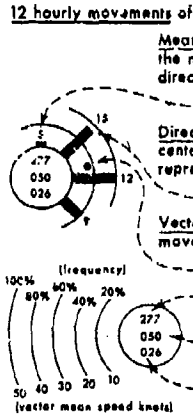
INSUFFICIENT DATA

tive compilation of available data for specified areas without regard to suspected biases.

osite page) are based on all available data subjectivaly adjusted where bias was evident.

AUGUST

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).



Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

(Centers moving toward the N had a mean speed of 5 knots.)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

(35% of all tropical cyclones moved toward the NE.)

Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

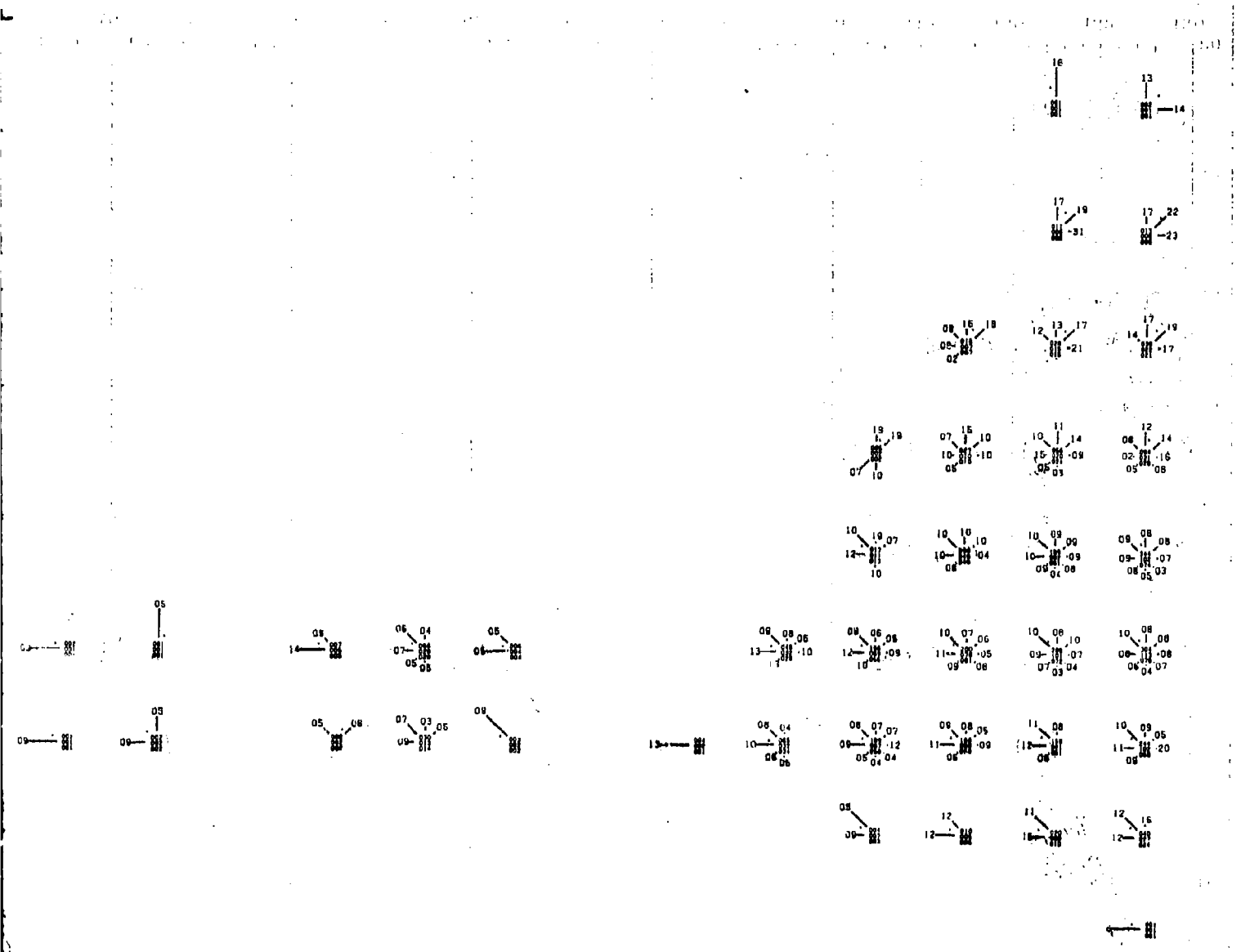
(Mean vector movement of all centers was toward 75° at 7 knots.)

Statistics for this rose are based on 277 twelve hour movements.

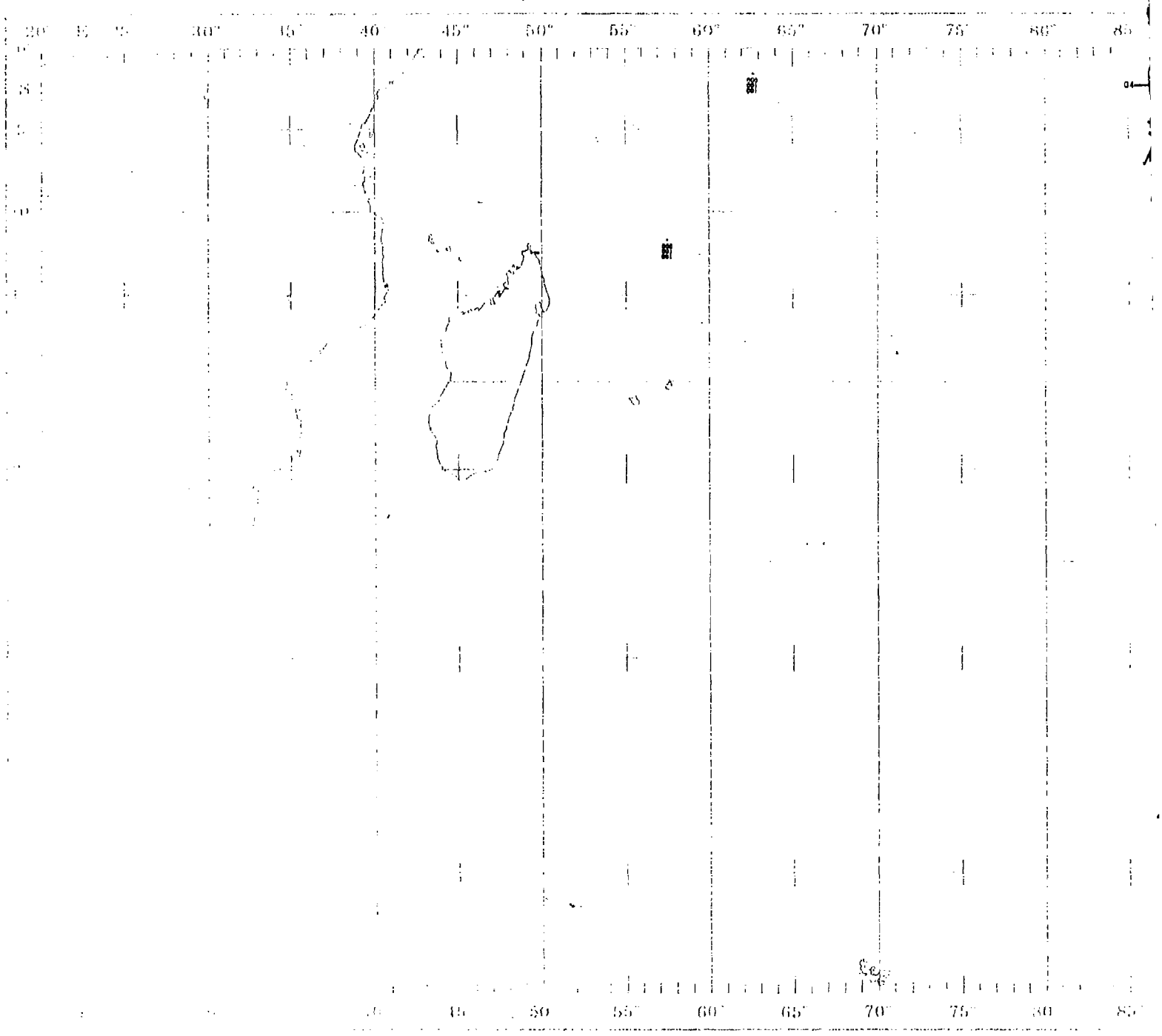
50 individual storms were observed in the 5° X 5° area during the period of record.

Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

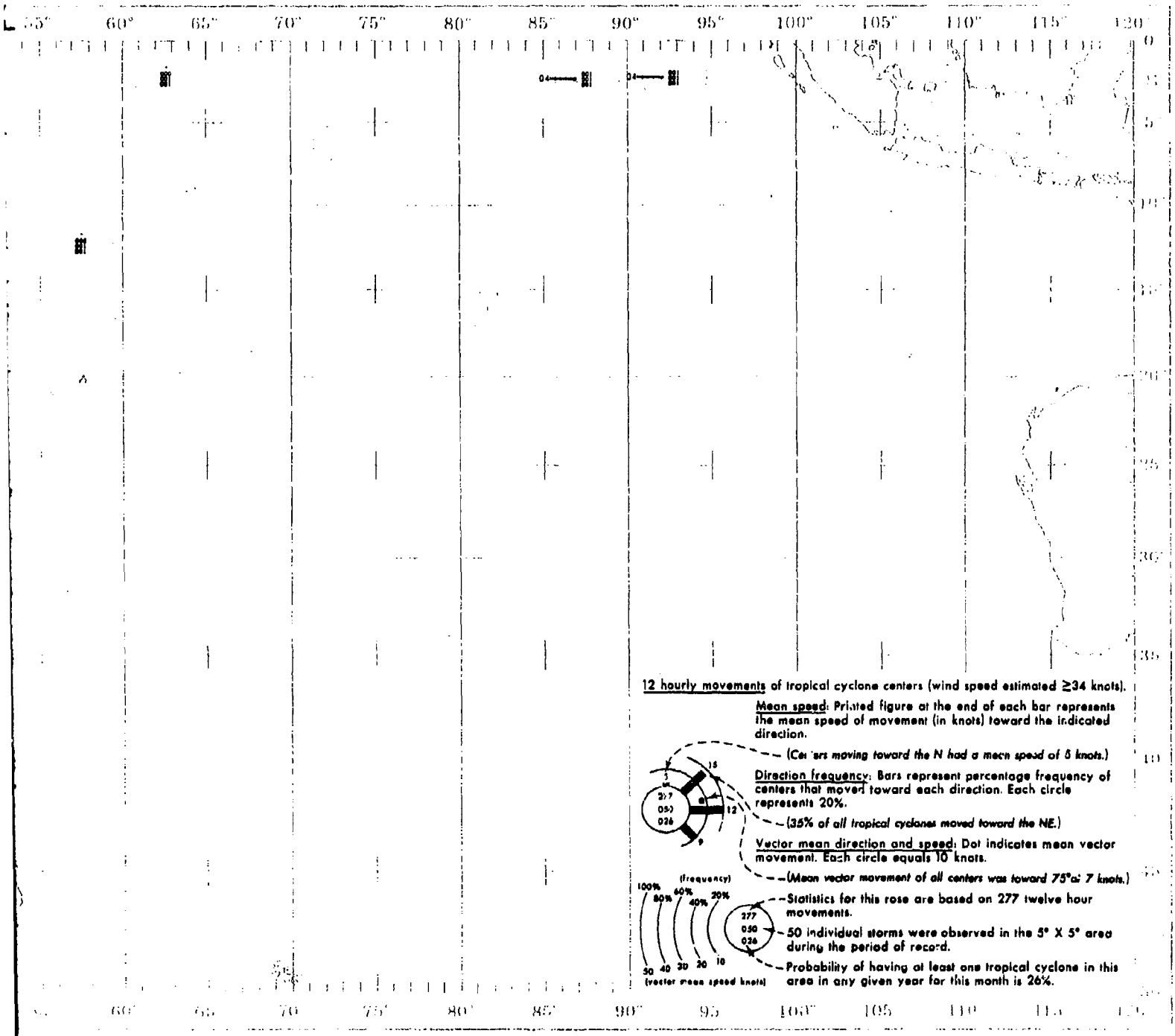
TROPICAL CYCLONE



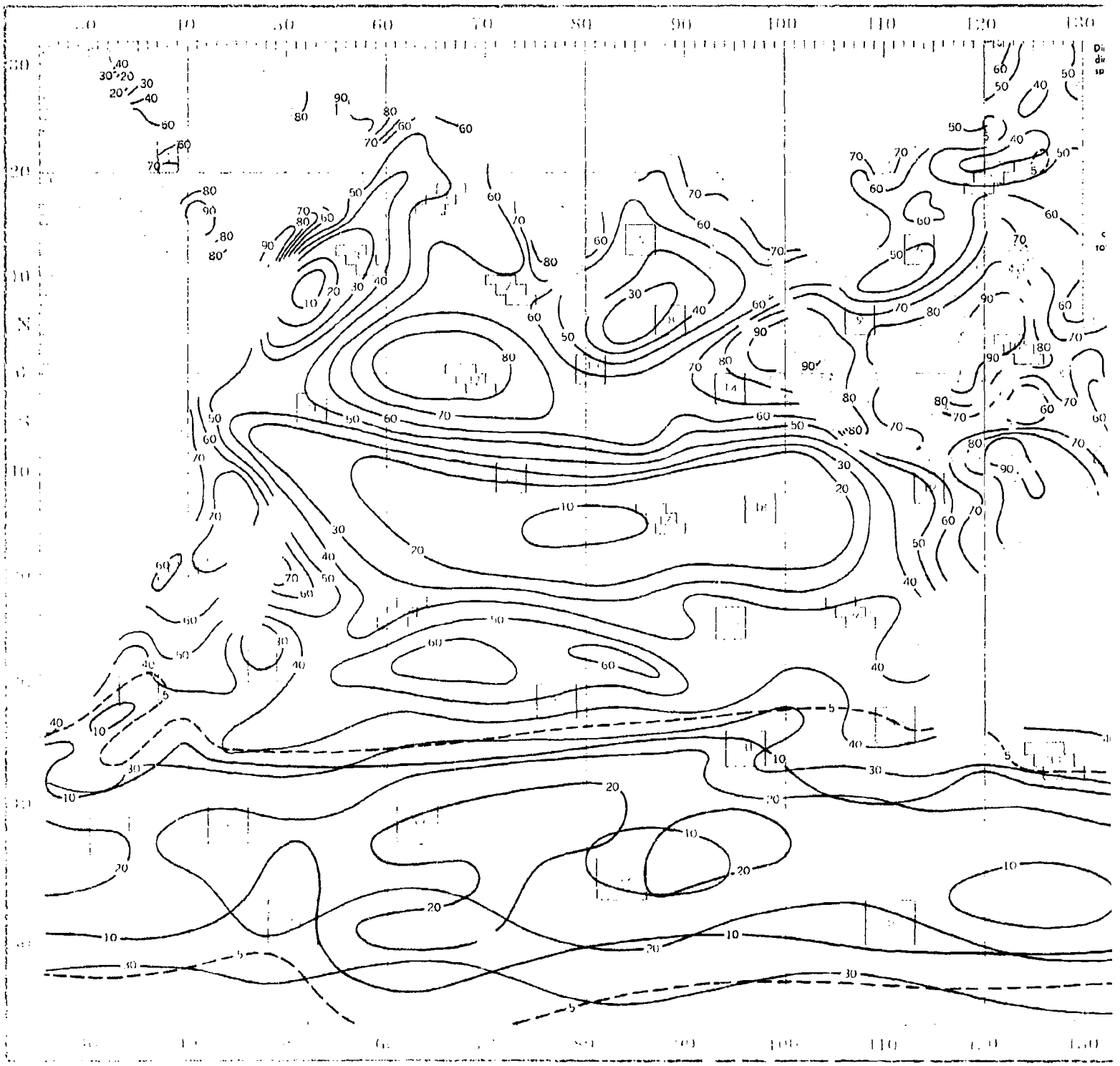
TROPICAL CYCLONE



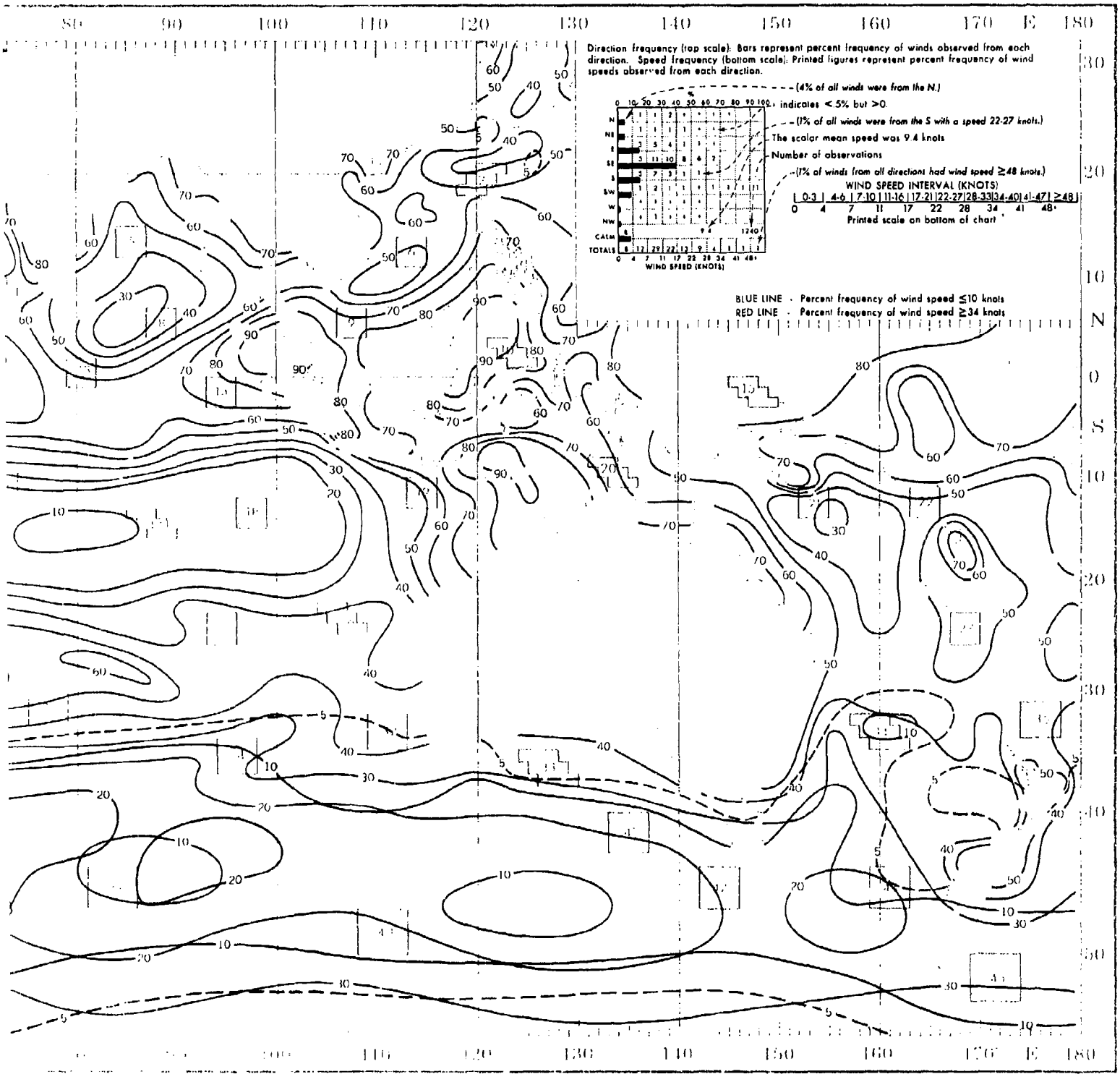
AUGUST


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75°at 7 knots.)
(frequency)
100%
80%
60%
40%
20%
277
050
026
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

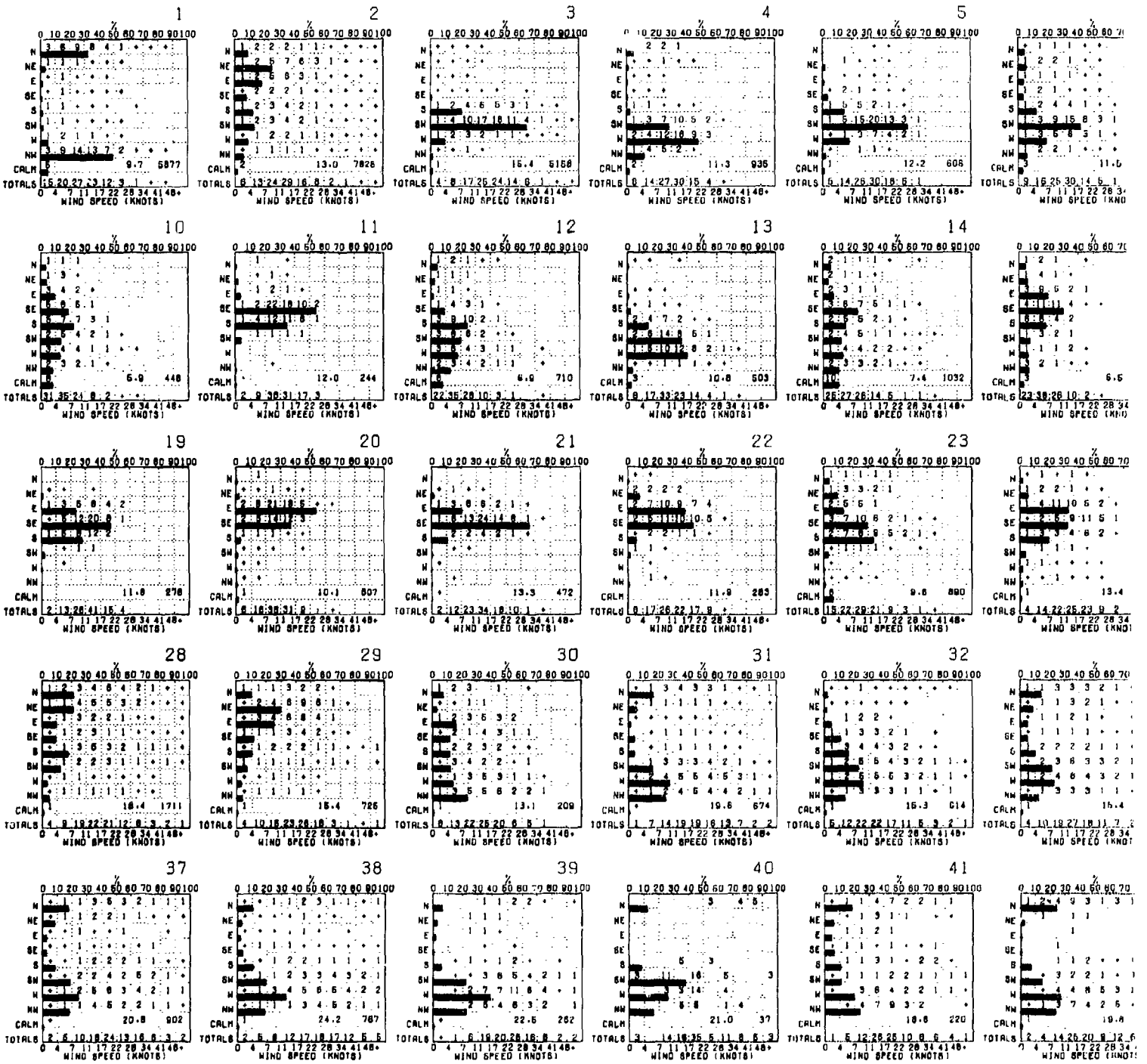
SEPTEMBER



SURFACE WINDS

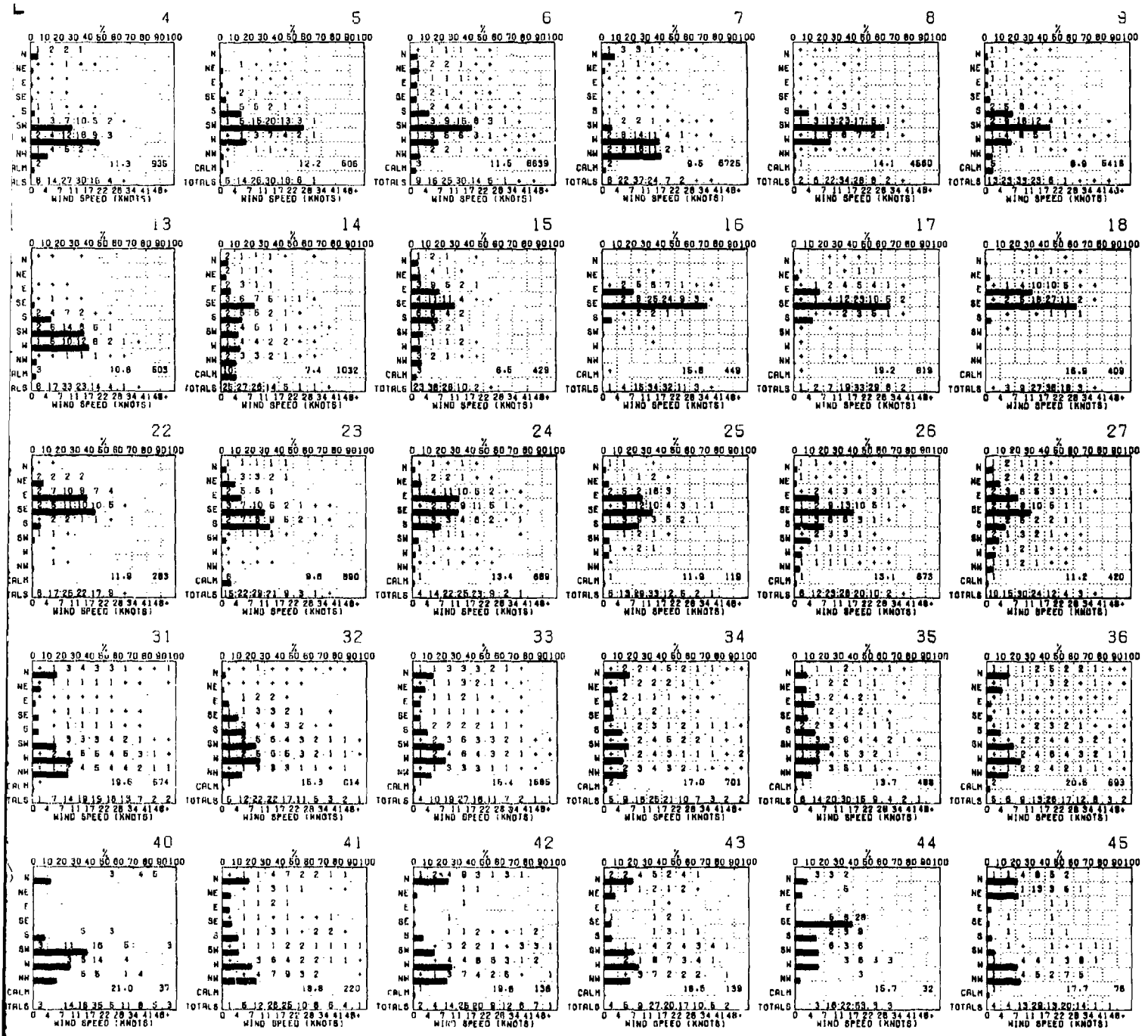


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

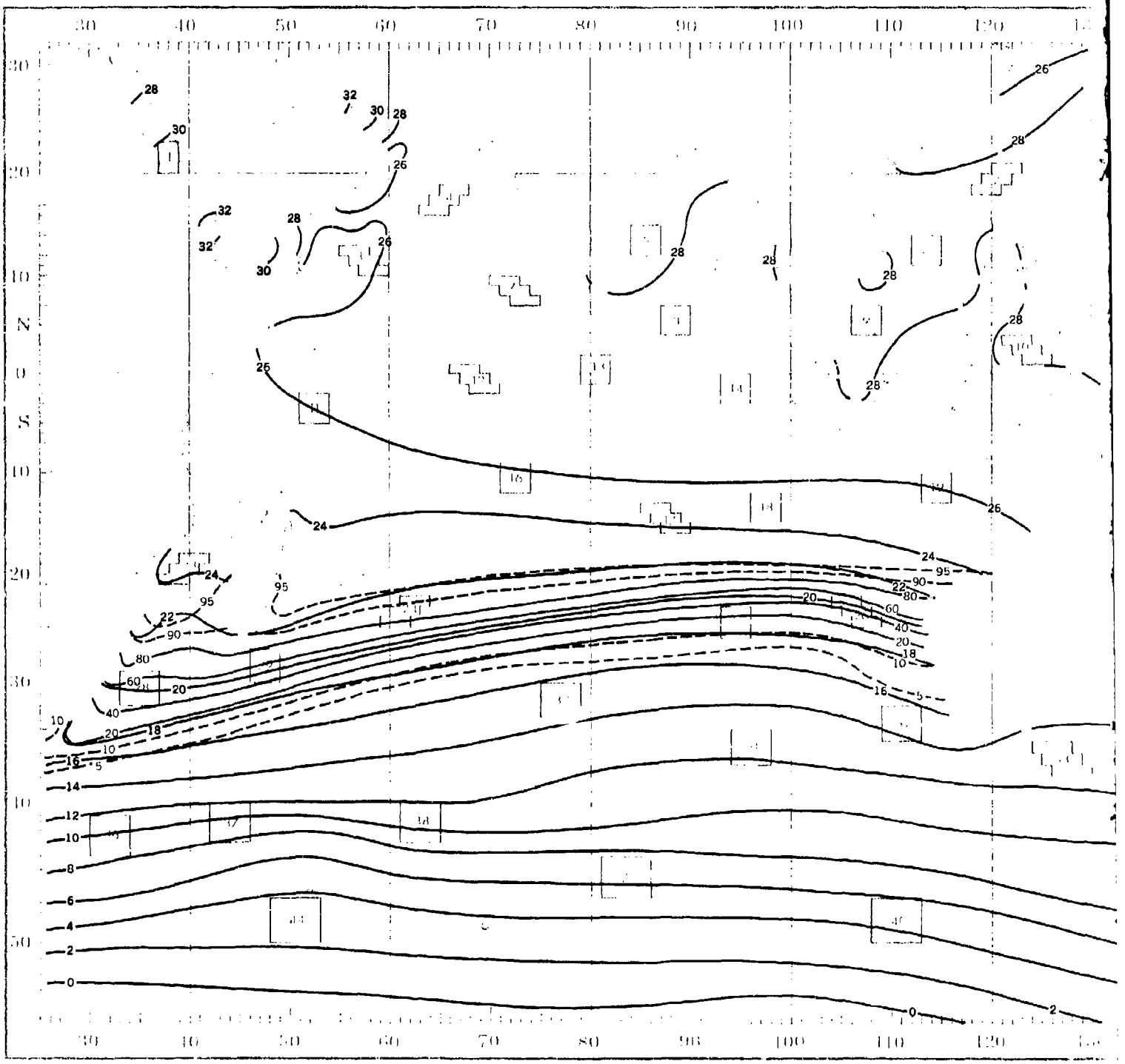
SEPTEMBER



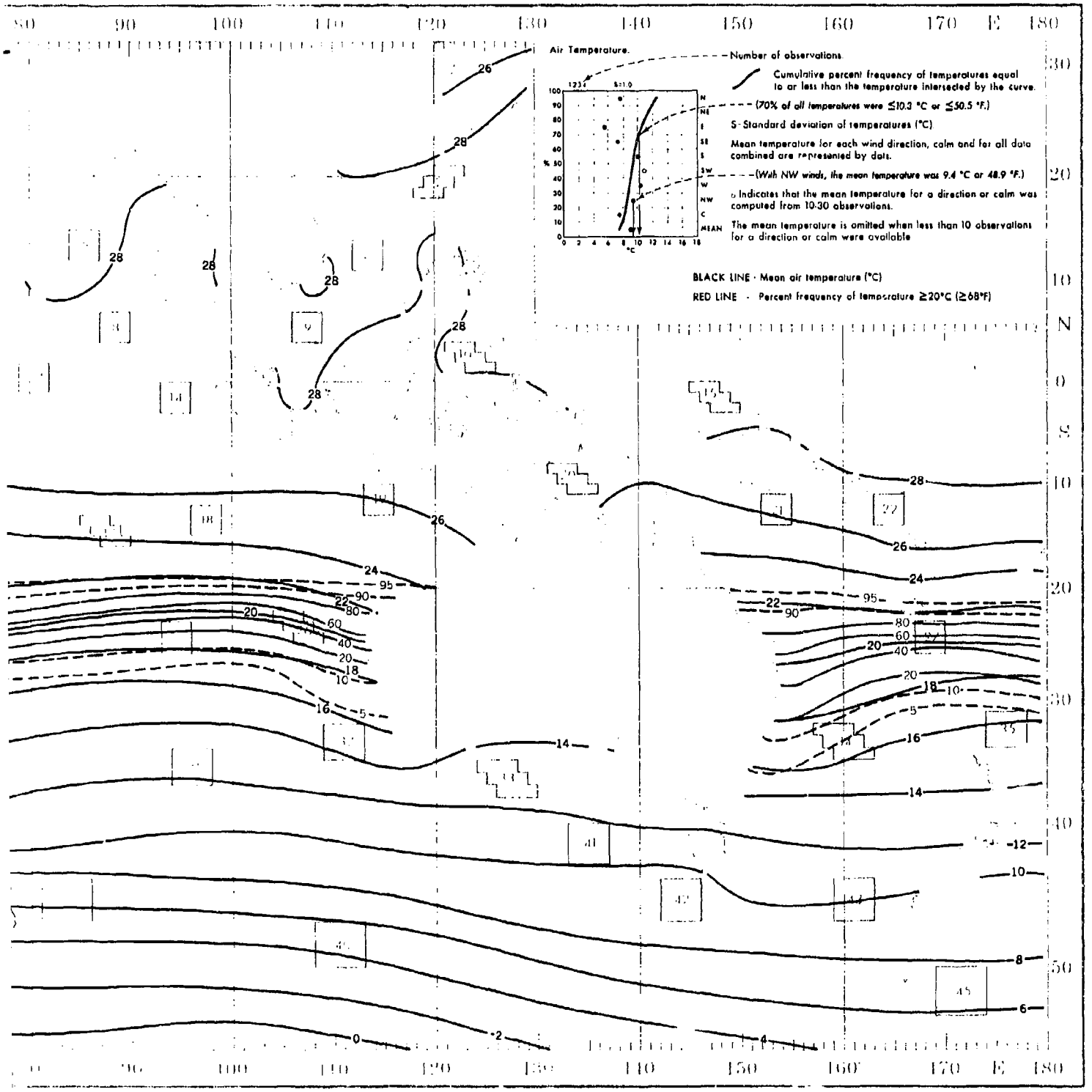
ctive compilation of available data for specified areas without regard to suspected biases.

posite page) are based on all available data subjectively adjusted where bias was evident.

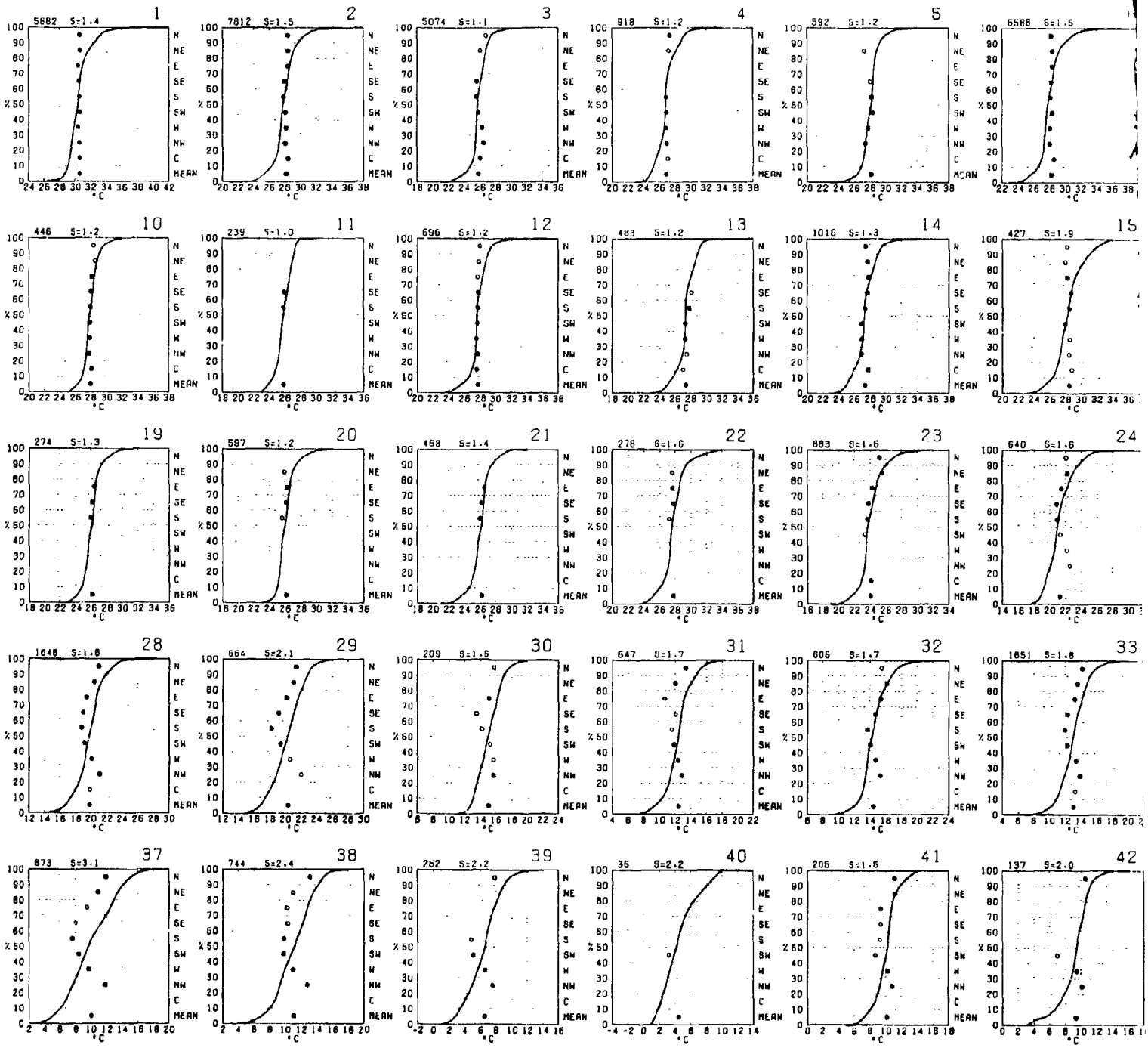
SEPTEMBER



SURFACE AIR TEMPERATURE

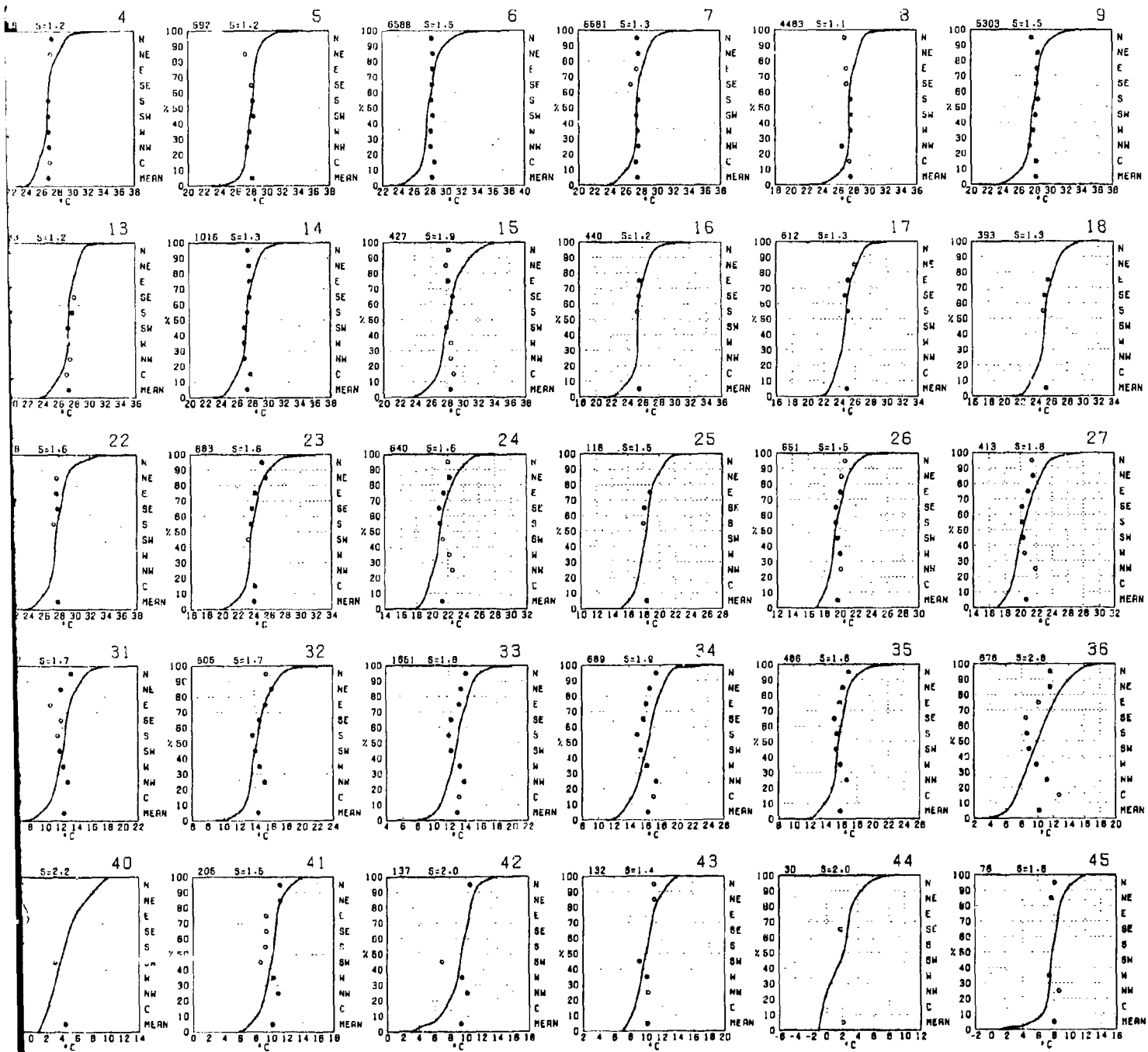


SURFACE AIR TEMPERATURE



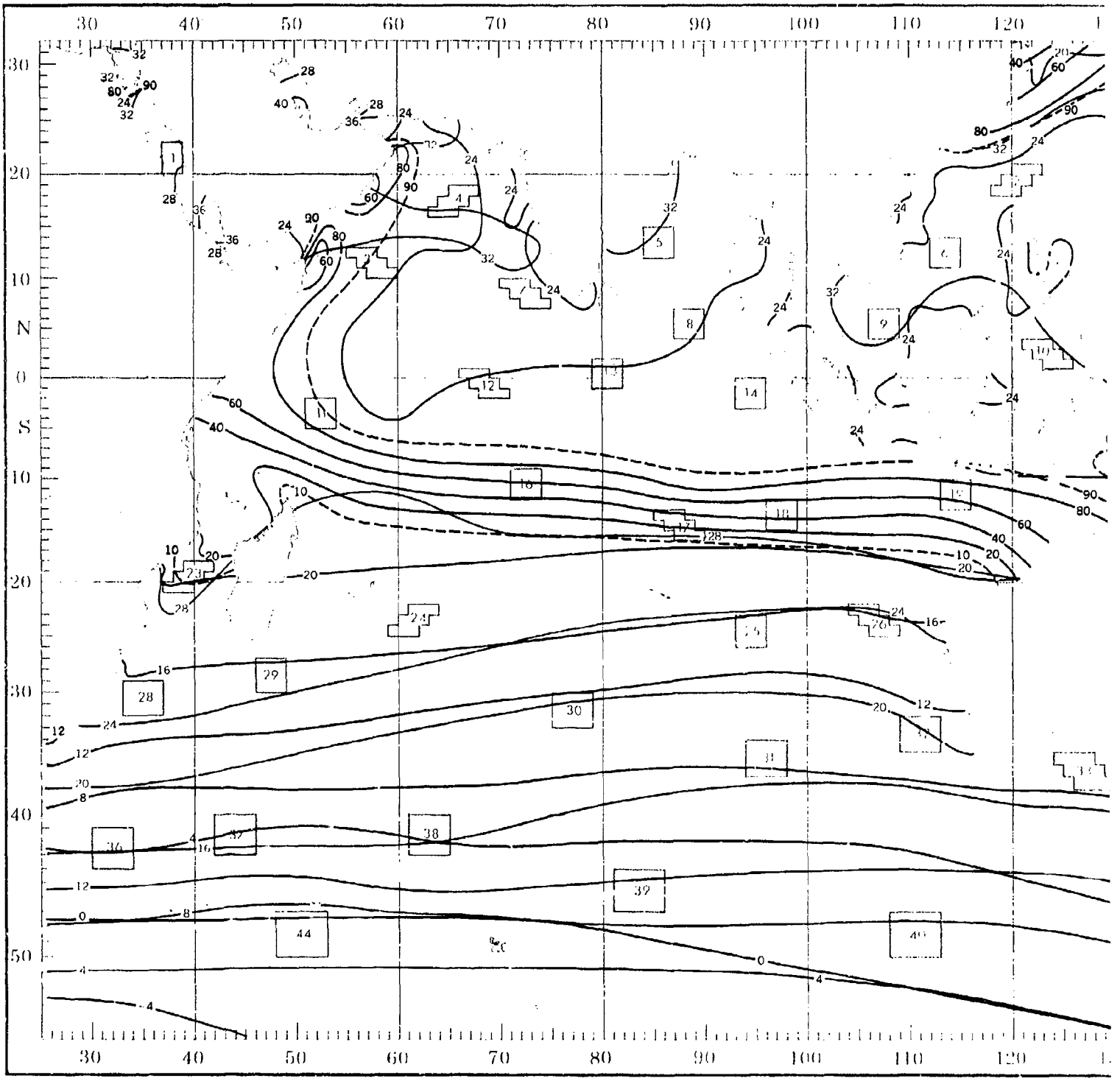
Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

SEPTEMBER

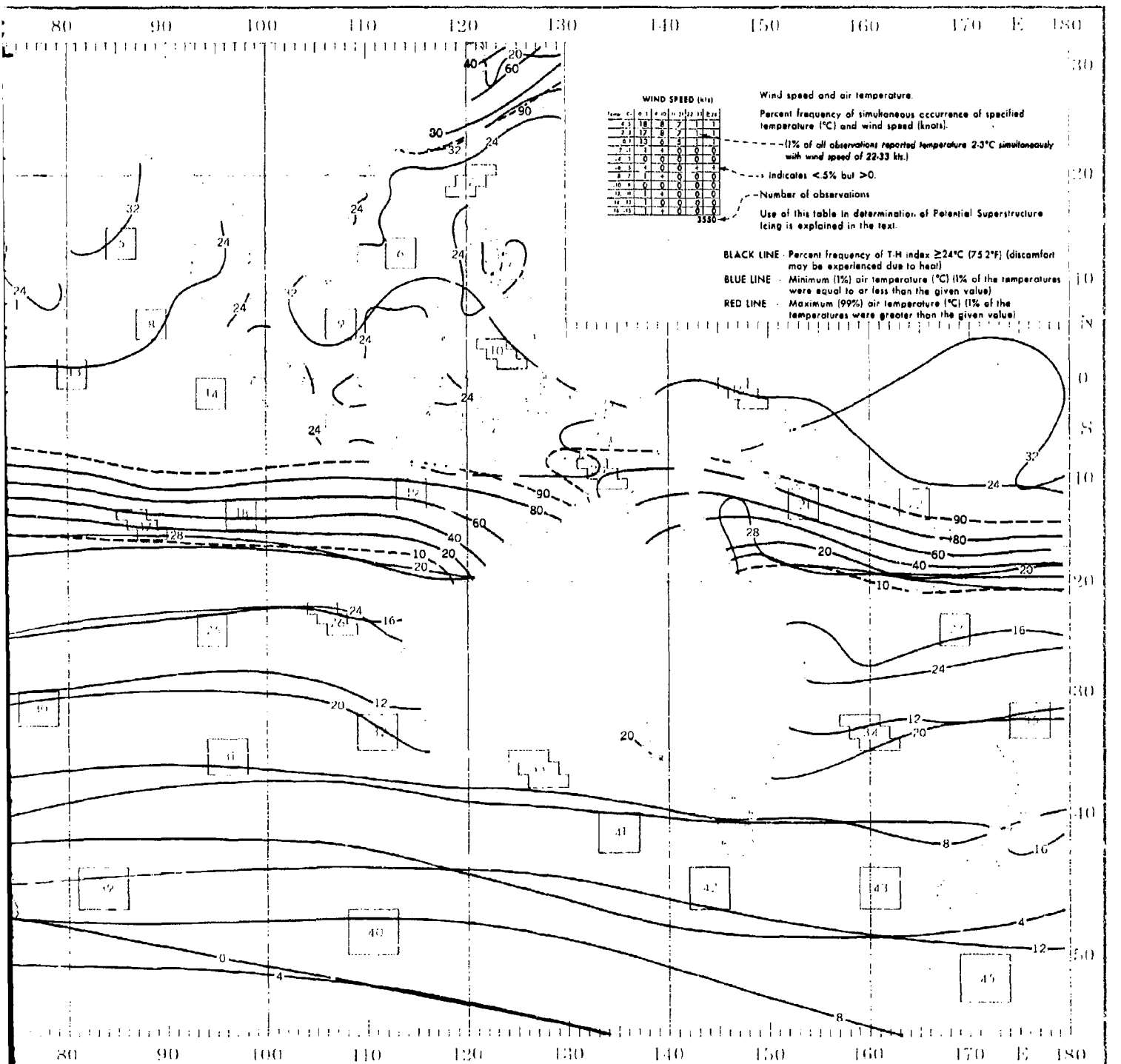


compilation of available data for specified areas without regard to suspected biases.
e page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER TEMPERATURE



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
40.41	+	+	0	0	0
38.39	+	+	+	0	0
36.37	+	+	+	0	0
34.36	1	1	1	+	0
32.33	3	8	7	1	+
30.31	8	27	19	2	+
28.29	3	9	7	1	+
26.27	+	+	+	0	0
24.25	0	+	0	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0

5887

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
38.37	+	+	+	0	0
34.35	+	+	+	+	0
32.33	+	1	1	+	0
30.31	1	5	5	1	+
28.29	3	21	25	6	1
26.27	1	10	12	3	+
24.25	+	1	1	+	+
22.23	0	+	+	+	+
20.21	0	+	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

7818

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	+	+	+	+	0
28.29	1	2	3	1	+
26.27	2	15	26	10	1
24.25	1	7	13	9	1
22.23	+	+	1	+	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

5079

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	1	2	0	0
28.29	1	10	11	+	0
26.27	6	27	30	4	0
24.25	1	3	2	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

921

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	1	0	0
30.31	1	3	3	+	0
28.29	4	29	34	4	0
26.27	1	8	9	2	0
24.25	0	+	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

597

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22
36.37	+	+	+	
34.35	-	+	+	
32.33	+	1	1	
30.31	2	6	6	
28.29	5	23	24	
26.27	2	10	11	
24.25	+	1	1	
22.23	0	0	+	
20.21	0	0	0	
18.19	0	0	0	
16.17	0	0	0	

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	3	6	0	0	0
28.29	22	35	5	+	0
26.27	8	16	5	+	0
24.25	+	1	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

461

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	3	+	+	0
26.27	2	31	36	2	0
24.25	0	13	11	1	0
22.23	0	+	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

240

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	1	4	+	0	0
28.29	13	32	4	1	0
26.27	7	25	7	1	+
24.25	+	2	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

599

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	3	1	0	0
28.29	5	23	16	2	0
26.27	3	22	16	2	+
24.25	1	1	4	1	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

486

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	3	1	0	0
28.29	13	22	8	+	0
26.27	9	24	8	1	0
24.25	+	4	2	+	+
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1016

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
34.35	+	1	0	0
32.33	3	4	+	0
30.31	5	10	1	0
28.29	10	28	7	0
26.27	4	20	3	+
24.25	+	2	1	+
22.23	+	0	0	0
20.21	0	0	0	0
18.19	0	0	0	0
16.17	0	0	0	0
14.15	0	0	0	0

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	0	0	0
28.29	1	5	6	0	0
26.27	+	23	35	3	0
24.25	+	7	14	1	0
22.23	0	1	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

274

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	+	1	1	0	0
28.29	1	6	5	+	0
26.27	2	34	24	1	0
24.25	2	12	11	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

597

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	1	0	0
28.29	+	5	8	1	+
26.27	1	23	30	6	0
24.25	3	6	11	4	0
22.23	+	1	2	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

469

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	2	0	0	0
30.31	1	4	2	+	0
28.29	5	19	16	2	0
26.27	1	16	20	6	0
24.25	+	2	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

279

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	+	+	1	0	0
28.29	+	1	1	0	0
26.27	2	6	4	+	0
24.25	8	25	14	1	0
22.23	6	17	9	3	0
20.21	+	1	1	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

901

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
28.29	0	+	0	0
26.27	+	1	+	0
24.25	+	4	3	+
22.23	3	13	13	2
20.21	1	17	22	8
18.19	0	2	7	1
16.17	0	+	0	0
14.15	0	0	0	0
12.13	0	0	0	0
10.11	0	0	0	0
8.9	0	0	0	0

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	+	+	+	0
24.25	+	+	1	1	+
22.23	1	4	7	4	1
20.21	2	13	18	8	1
18.19	1	8	13	6	1
16.17	+	3	3	1	1
14.15	0	+	+	+	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

1657

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	+	+	0	0
24.25	+	1	3	1	+
22.23	1	4	12	7	0
20.21	2	10	20	6	+
18.19	2	8	10	4	+
16.17	+	2	3	1	1
14.15	0	+	+	+	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

885

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	0	0	0
18.19	0	1	2	2	+
16.17	3	16	15	4	+
14.15	4	12	19	4	0
12.13	+	6	9	1	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

209

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	0	0	0
16.17	0	1	3	1	0
14.15	0	5	10	6	3
12.13	1	9	20	12	6
10.11	1	5	6	7	2
8.9	+	1	+	2	+
6.7	0	0	0	+	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

648

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	+	+	0
18.19	+	2	2	0	+
16.17	1	9	9	3	1
14.15	2	15	18	8	3
12.13	1	7	10	4	1
10.11	0	+	+	1	1
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

608

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
20.21	0	0	+	0
18.19	+	1	+	+
16.17	+	3	4	1
14.15	2	9	15	5
12.13	1	12	19	7
10.11	1	5	5	3
8.9	+	+	1	1
6.7	0	0	0	0
4.5	0	0	0	0
2.3	0	0	0	0
0.1	0	0	0	0

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	+	0	0
16.17	+	+	2	2	+
14.15	+	1	4	3	2
12.13	+	2	10	5	2
10.11	+	4	7	5	3
8.9	+	3	8	8	3
6.7	+	3	8	5	1
4.5	+	1	2	2	+
2.3	+	0	0	+	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

873

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.17	+	1	1	1	+
14.15	+	1	3	7	3
12.13	+	3	9	11	5
10.11	1	5	8	9	5
8.9	+	3	7	6	3
6.7	+	+	1	2	3
4.5	0	0	+	+	1
2.3	0	0	0	+	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

744

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	+	+	0	0
10.11	0	0	5	4	0
8.9	0	2	6	10	3
6.7	+	2	16	17	6
4.5	0	2	8	5	2
2.3	0	2	3	4	1
0.1	0	0	0	+	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

262

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.9	0	0	6	3	6
6.7	0	0	6	6	9
4.5	3	9	11	3	3
2.3	0	3	28	6	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

35

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	+	0
12.13	0	4	13	2	1
10.11	1	12	26	9	6
8.9	+	3	12	3	2
6.7	0	0	1	2	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

206

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33
12.13	0	3	6	4
10.11	1	8	20	7
8.9	1	8	15	9
6.7	0	1	3	1
4.5	0	0	1	0
2.3	0	1	1	0
0.1	0	0	0	0
-2.-1	0	0	0	0
-4.-3	0	0	0	0
-6.-5	0	0	0	0
-8.-7	0	0	0	0

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	1	2	0	0
28.29	1	10	11	+	0
26.27	6	27	30	4	0
24.25	1	3	2	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

921

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	1	0	0
30.31	1	3	3	+	0
28.29	4	29	34	4	0
26.27	1	8	9	2	0
24.25	0	+	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

697

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	+	0	0
34.35	+	+	+	0	0
32.33	+	1	1	+	0
30.31	2	6	6	1	+
28.29	5	23	24	3	+
26.27	2	10	11	2	+
24.25	+	1	1	+	+
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6601

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	1	+	0	0
30.31	+	4	2	+	0
28.29	3	26	12	+	0
26.27	4	27	15	1	+
24.25	+	2	2	+	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

6584

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	+	0
30.31	+	1	3	+	0
28.29	1	15	32	4	+
26.27	1	11	23	4	+
24.25	0	1	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

4483

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.35	+	+	+	0	0
32.33	+	1	1	+	0
30.31	1	7	3	+	0
28.29	9	35	17	1	0
26.27	2	12	7	1	+
24.25	+	1	1	+	+
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5312

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	3	1	0	0
28.29	5	23	16	2	0
26.27	3	22	16	2	+
24.25	1	1	4	1	0
22.23	0	0	0	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

486

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	0	0	0
30.31	2	3	1	0	0
28.29	13	22	8	+	0
26.27	9	24	6	1	0
24.25	+	4	2	+	+
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1016

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	1	0	0	0
32.33	3	4	+	0	0
30.31	5	10	1	0	0
28.29	10	28	7	0	0
26.27	4	20	3	+	0
24.25	+	2	1	+	0
22.23	+	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

430

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	0	1	3	+	0
26.27	1	8	33	6	+
24.25	0	9	28	7	+
22.23	0	1	1	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

440

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	+	0	0
28.29	0	1	1	1	0
26.27	+	3	17	9	+
24.25	1	4	28	23	1
22.23	0	+	5	4	+
20.21	0	0	0	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

612

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	0	+	1	0
28.29	0	1	4	1	0
26.27	+	5	29	8	+
24.25	+	5	32	10	+
22.23	0	1	1	2	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

393

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	2	0	0	0
30.31	1	4	2	+	0
28.29	6	19	16	2	0
26.27	1	16	20	6	0
24.25	+	2	1	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

279

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	+	+	1	0	0
28.29	+	1	1	0	0
26.27	2	6	4	+	0
24.25	8	25	14	1	0
22.23	6	17	9	3	0
20.21	+	1	1	+	+
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

901

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	0	0	0
26.27	+	1	+	0	0
24.25	+	4	3	+	0
22.23	3	13	13	2	1
20.21	1	17	22	8	1
18.19	0	2	7	1	+
16.17	0	+	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

640

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	3	0	0	0
20.21	1	8	7	1	0
18.19	5	22	28	2	0
16.17	1	8	8	4	1
14.15	0	0	1	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

119

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	+	0	0
22.23	1	5	5	1	+
20.21	2	15	17	5	0
18.19	3	14	21	5	+
16.17	0	1	4	1	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

651

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	1	1	+	0	0
24.25	1	2	2	0	0
22.23	4	12	5	+	0
20.21	3	19	17	3	0
18.18	1	11	12	4	+
16.17	0	0	1	+	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

413

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	0	0	0
16.17	0	1	3	1	0
14.15	0	5	10	6	3
12.13	1	9	20	12	6
10.11	1	5	6	7	2
8.9	+	1	+	2	+
6.7	0	0	0	+	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

648

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	+	+	+	+	0
18.19	+	2	2	0	+
16.17	1	9	8	3	1
14.15	2	15	18	8	3
12.13	1	7	10	4	1
10.11	0	+	+	1	1
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

608

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	0	+	0	0
18.18	+	1	+	+	0
16.17	+	3	4	1	+
14.15	2	9	15	5	1
12.13	1	12	19	7	2
10.11	1	5	5	3	1
8.8	+	+	1	1	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

1665

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	+	+	0	0
20.21	1	1	2	+	0
18.19	1	6	13	4	1
16.17	1	11	18	7	2
14.15	2	7	10	4	2
12.13	+	+	3	2	2
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

689

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	1	0	1	+	0
18.18	1	3	7	1	+
16.17	3	18	21	4	1
14.15	1	13	14	6	1
12.13	+	+	1	1	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

490

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	+	0	0
16.17	1	1	1	1	1
14.15	1	2	3	3	1
12.13	1	3	9	5	1
10.11	+	4	12	6	3
8.8	1	2	9	9	2
6.7	+	2	6	4	2
4.5	0	+	1	+	1
2.3	0	0	0	0	+
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

676

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
8.9	0	0	6	3	6
6.7	0	0	6	6	8
4.5	3	9	11	3	3
2.3	0	3	2	5	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0

35

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	+	0
12.13	0	4	13	2	1
10.11	1	12	26	9	6
8.9	+	3	12	3	2
6.7	0	0	1	2	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

205

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	3	5	4	2
10.11	1	6	20	7	0
8.8	1	8	15	9	3
6.7	0	1	3	1	3
4.5	0	0	1	0	4
2.3	0	1	1	0	1
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

137

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	2	2	7	6	1
10.11	1	7	29	14	4
8.8	2	4	11	8	1
6.7	0	0	2	1	2
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

133

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
6.7	0	3	0	0	0
4.5	0	7	7	3	0
2.3	0	3	37	3	0
0.1	0	3	17	0	0
-2.-1	0	0	17	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0
-12.-11	0	0	0	0	0
-14.-13	0	0	0	0	0

30

45

WIND SPEED (KTS)

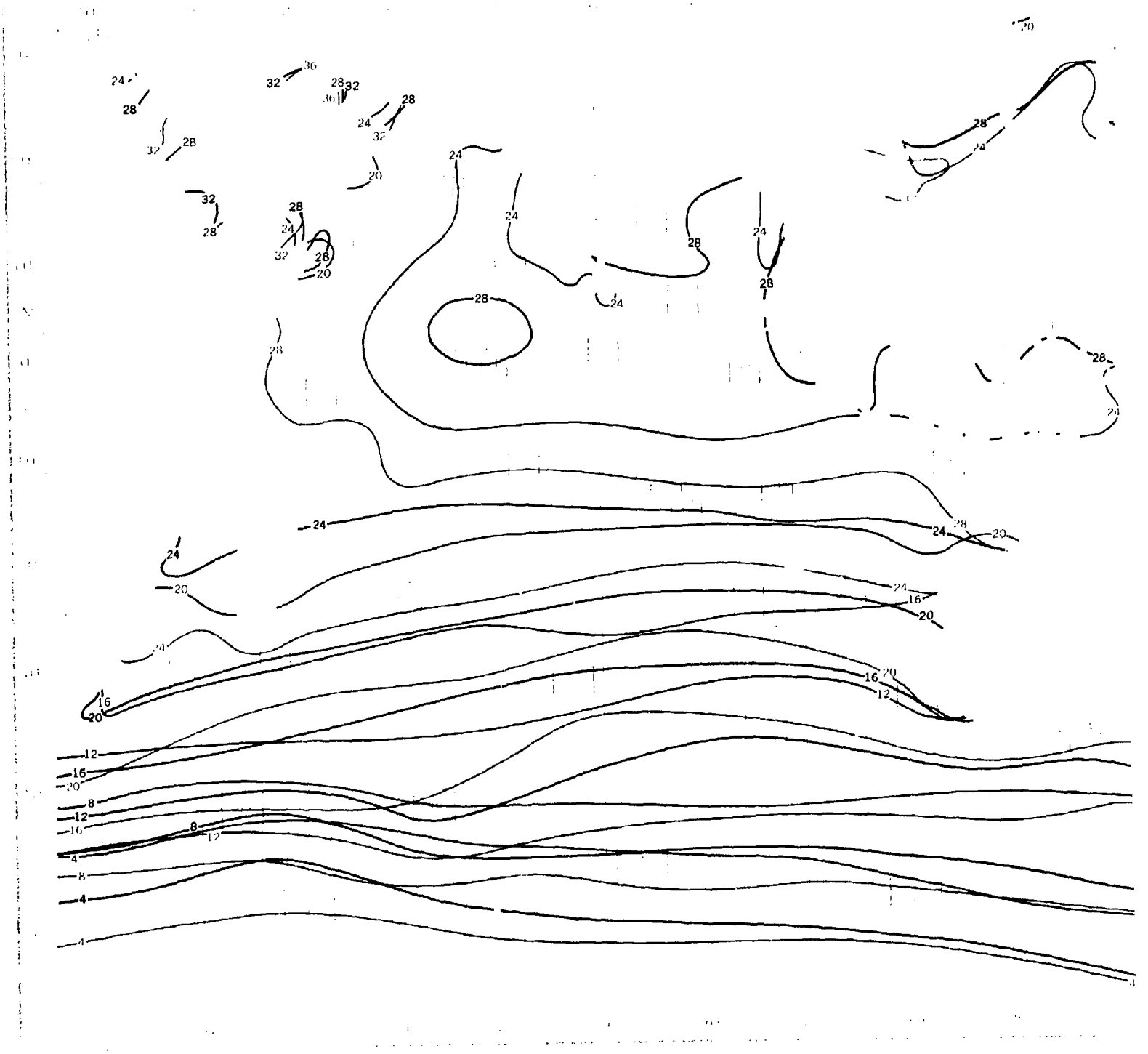
TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	1	0	0
10.11	1	0	4	7	0
8.8	1	7	20	20	0
6.7	0	11	16	7	3
4.5	1	0	0	1	0
2.3	0	0	1	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

76

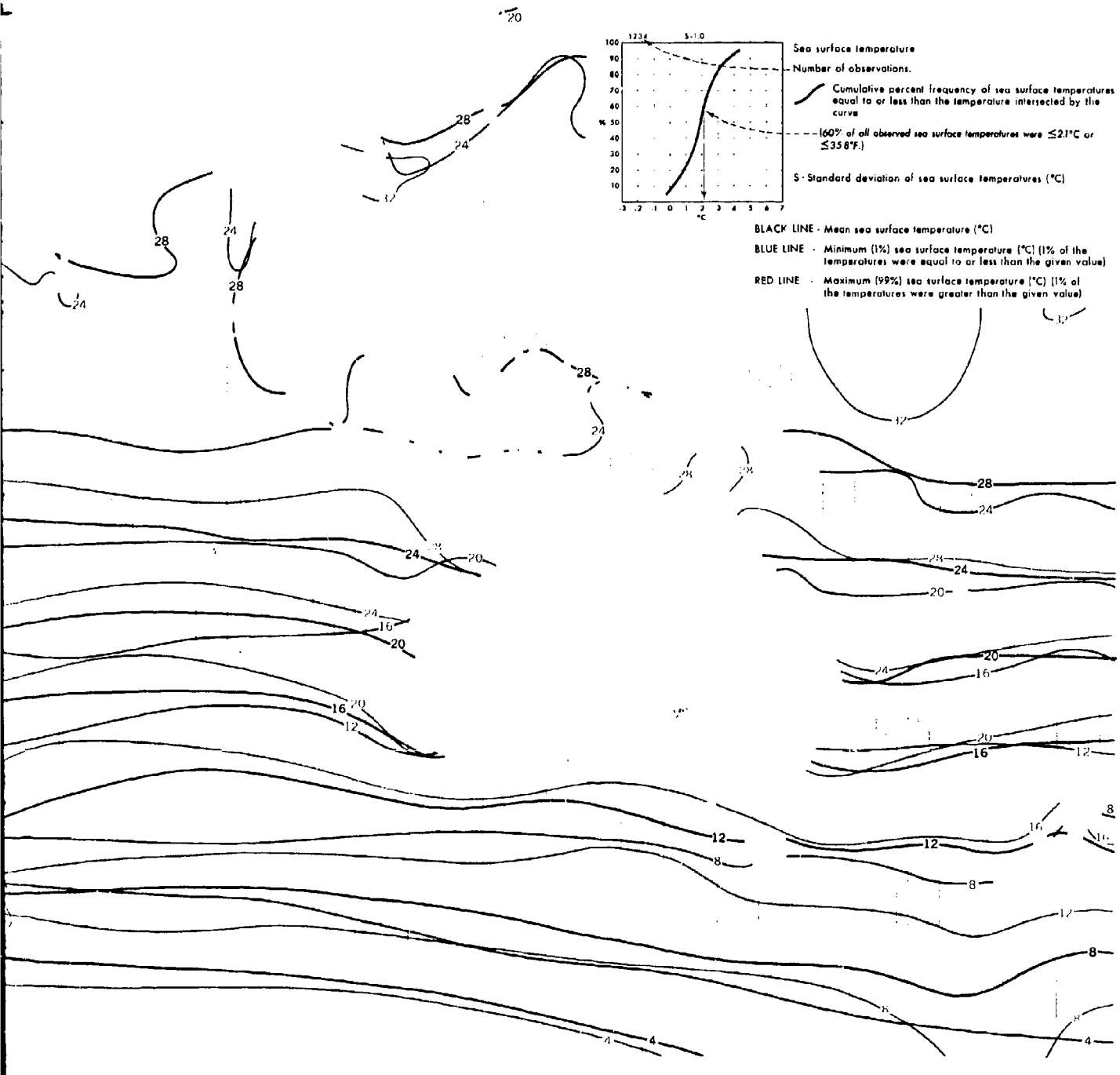
ive compilation of available data for specified areas without regard to suspected biases.

site page) are based on all available data subjectively adjusted where bias was evident.

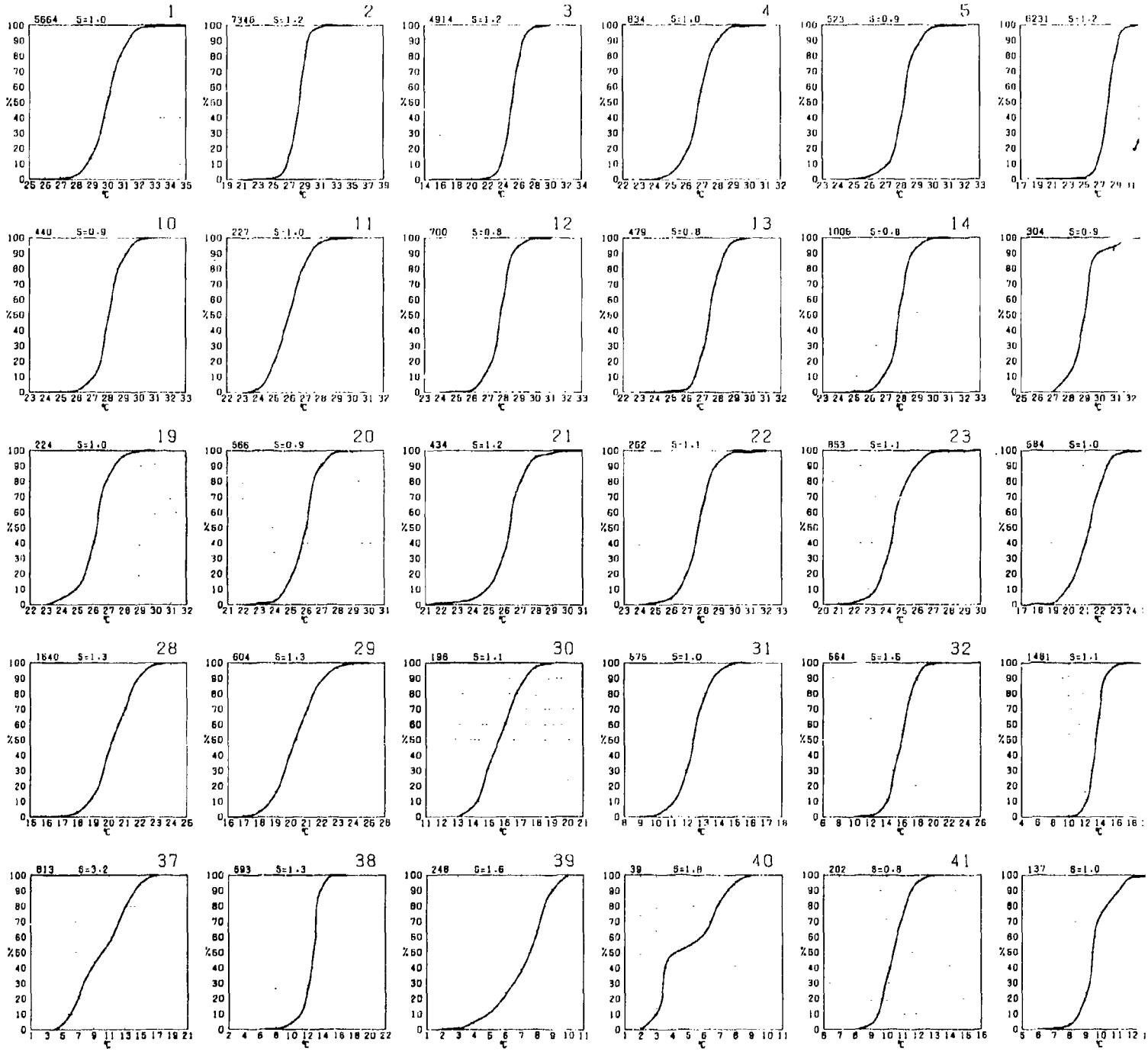
SEPTEMBER



SEA SURFACE TEMPERATURE

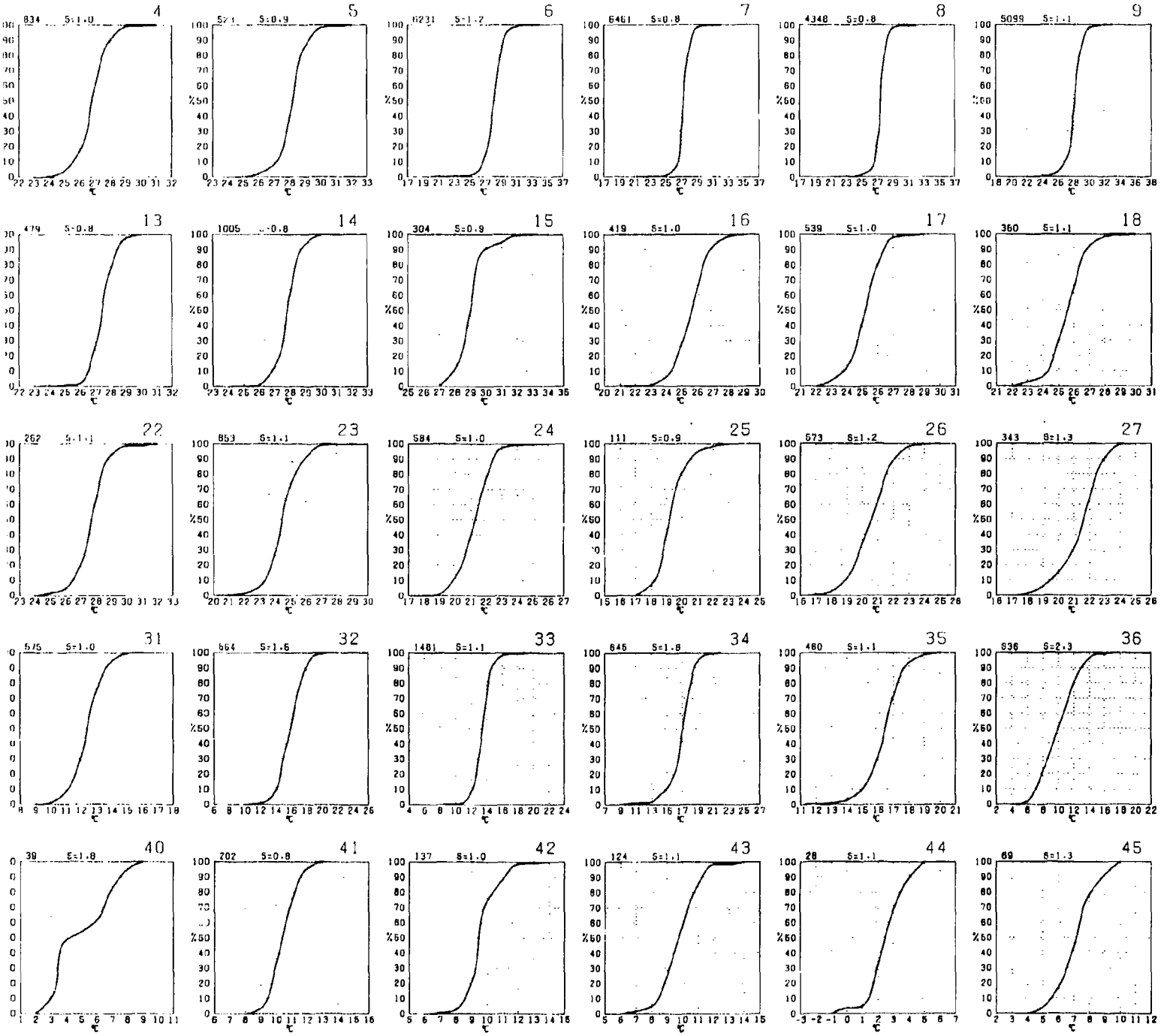


SEA SURFACE TEMPERATURE



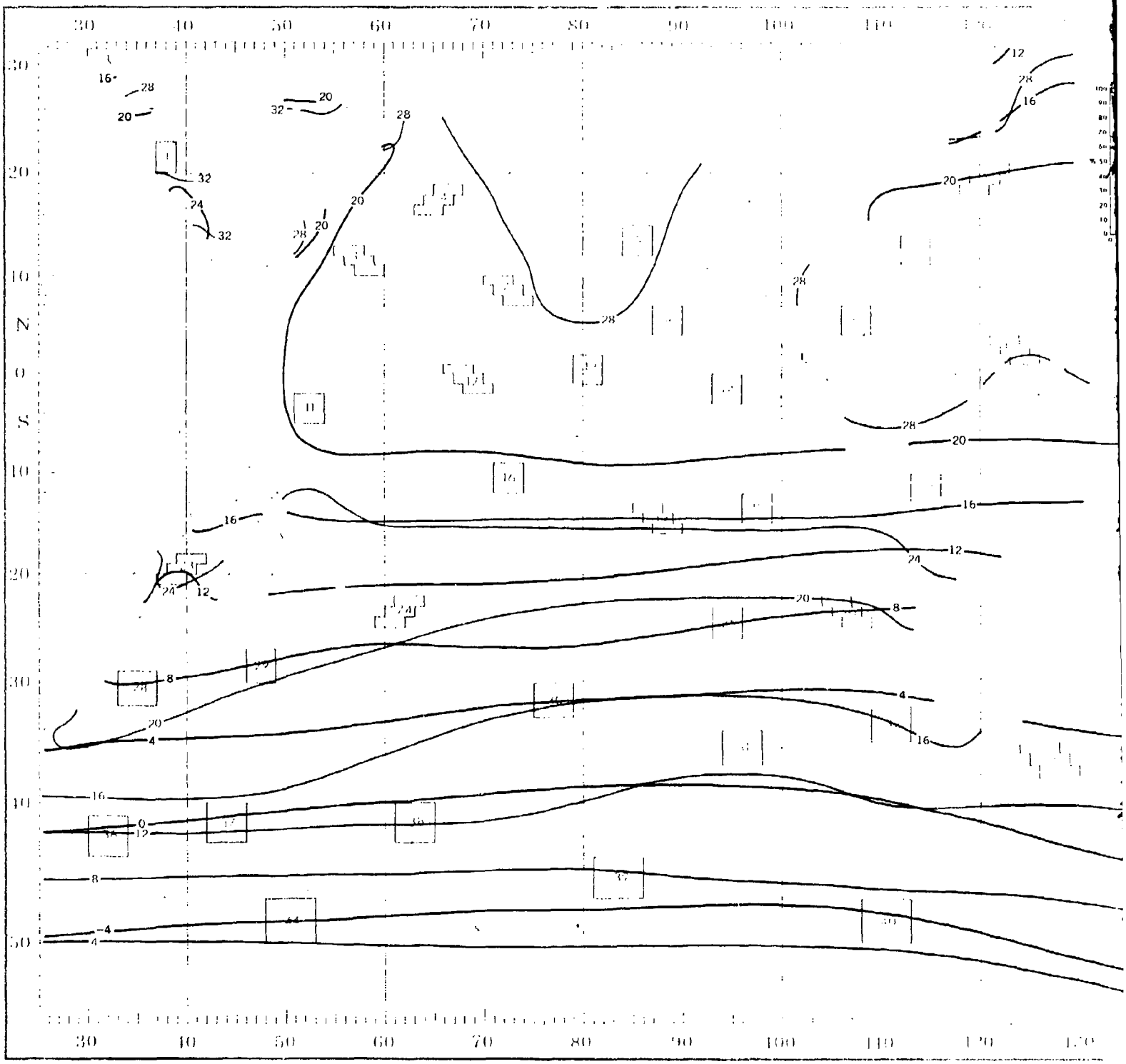
Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively ad

SEPTEMBER

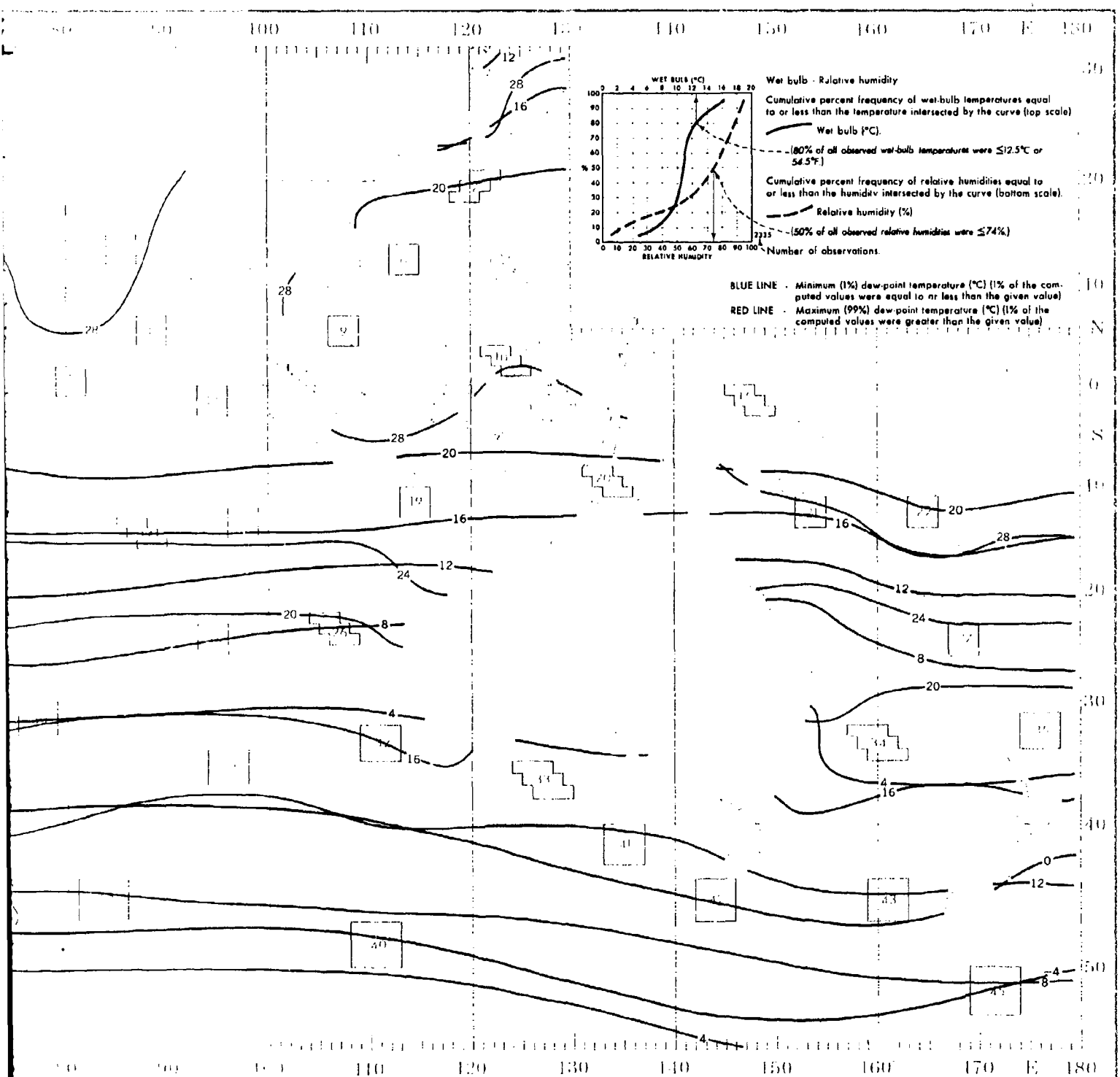


:tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

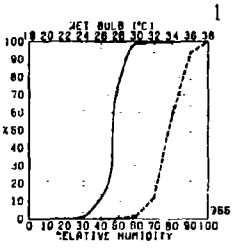
SEPTEMBER

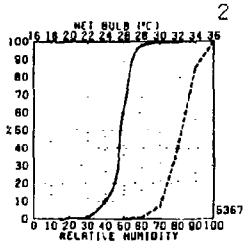


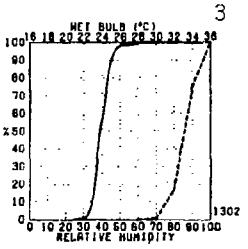
HUMIDITY

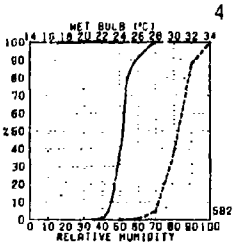

WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale)
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

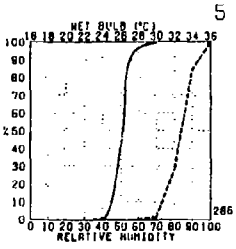
WET BULB AND RELATIVE HUMIDITY

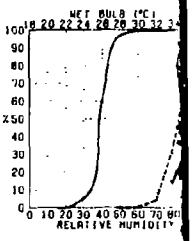


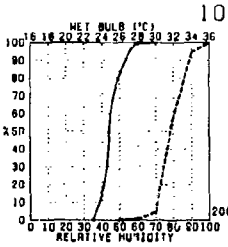


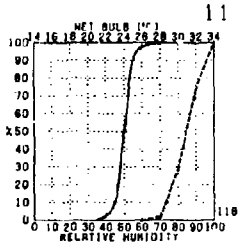


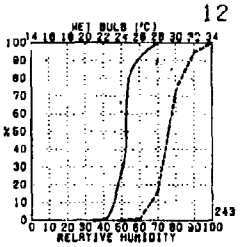


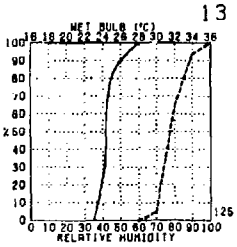


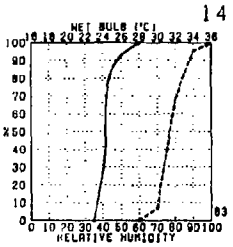


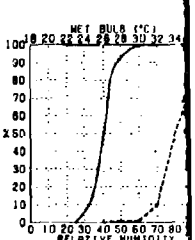


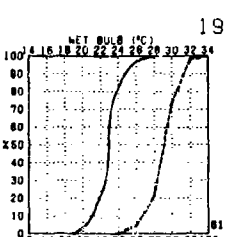


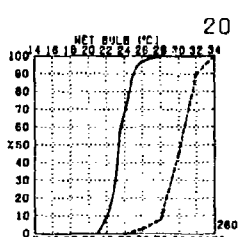


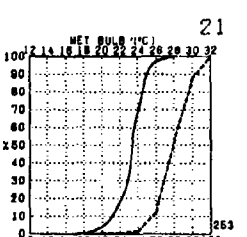


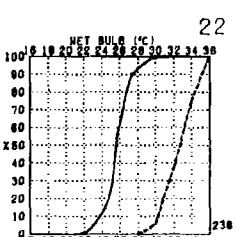


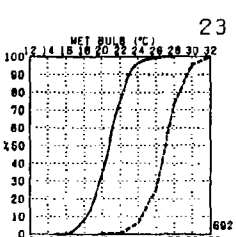


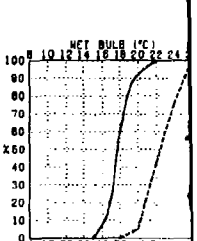


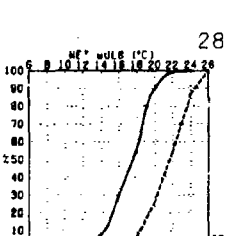


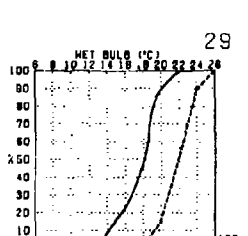


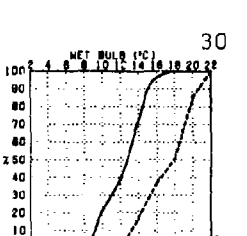


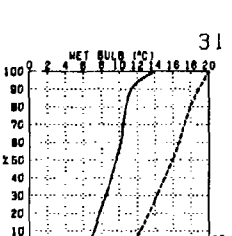


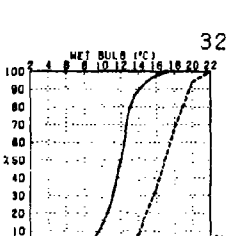


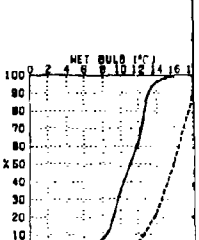


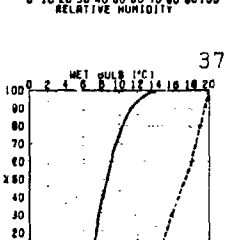


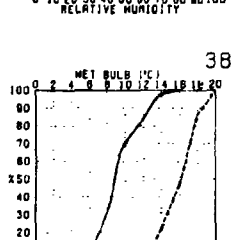


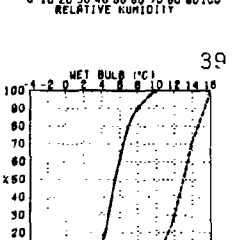












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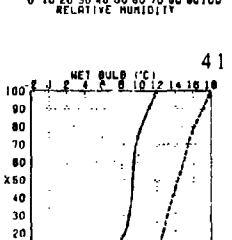
INSUFFICIENT DATA

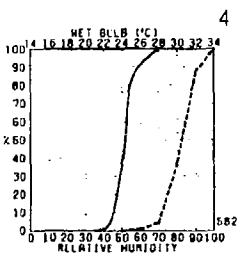


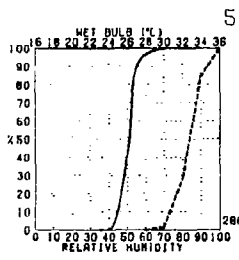
INSUFFICIEN DATA

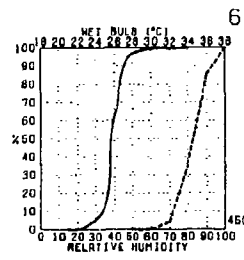
Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

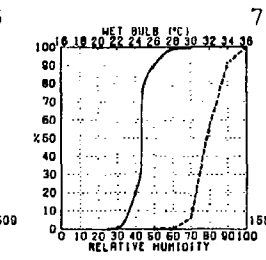
HUMIDITY

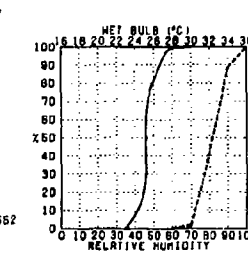
SEPTEMBER

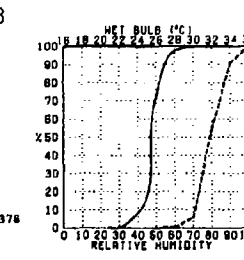


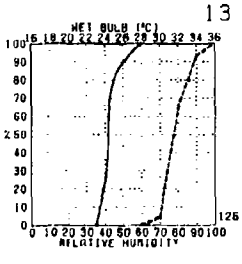


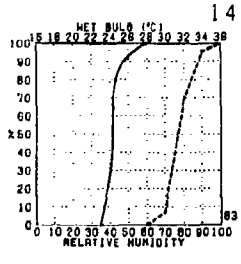


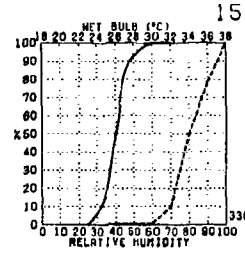


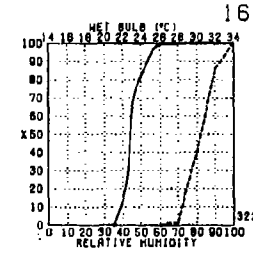


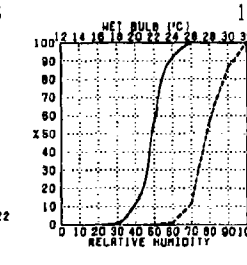


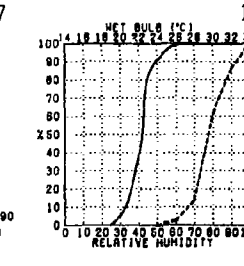


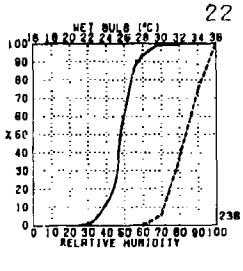


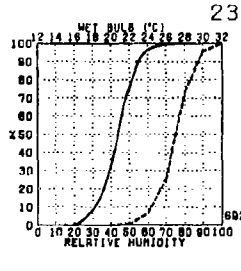


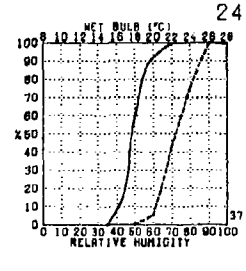


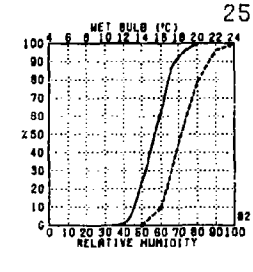


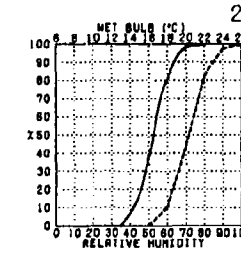


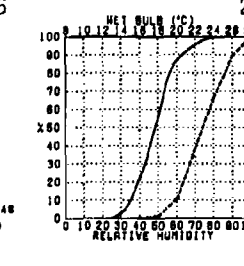


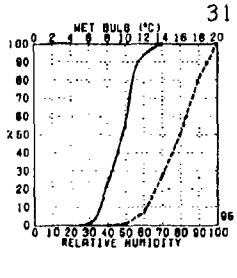


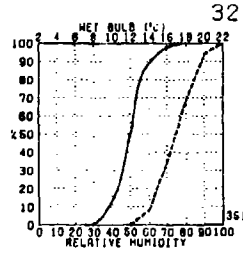


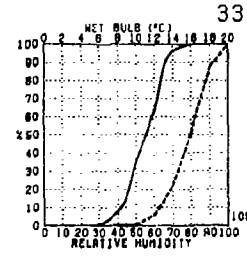


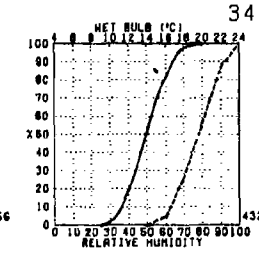


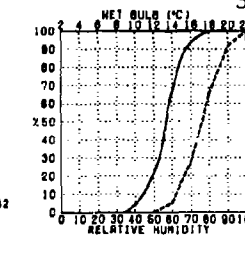












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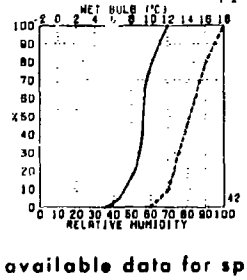

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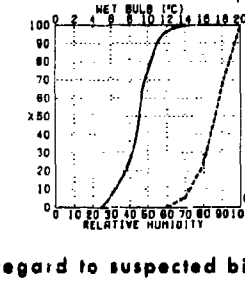

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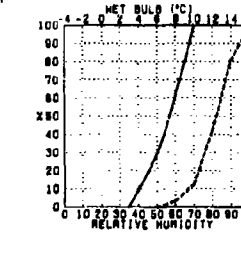

bjective compilation of available data for specified areas without regard to suspected biases.
opposite page) are based on all available data subjectively adjusted where bias was evident.

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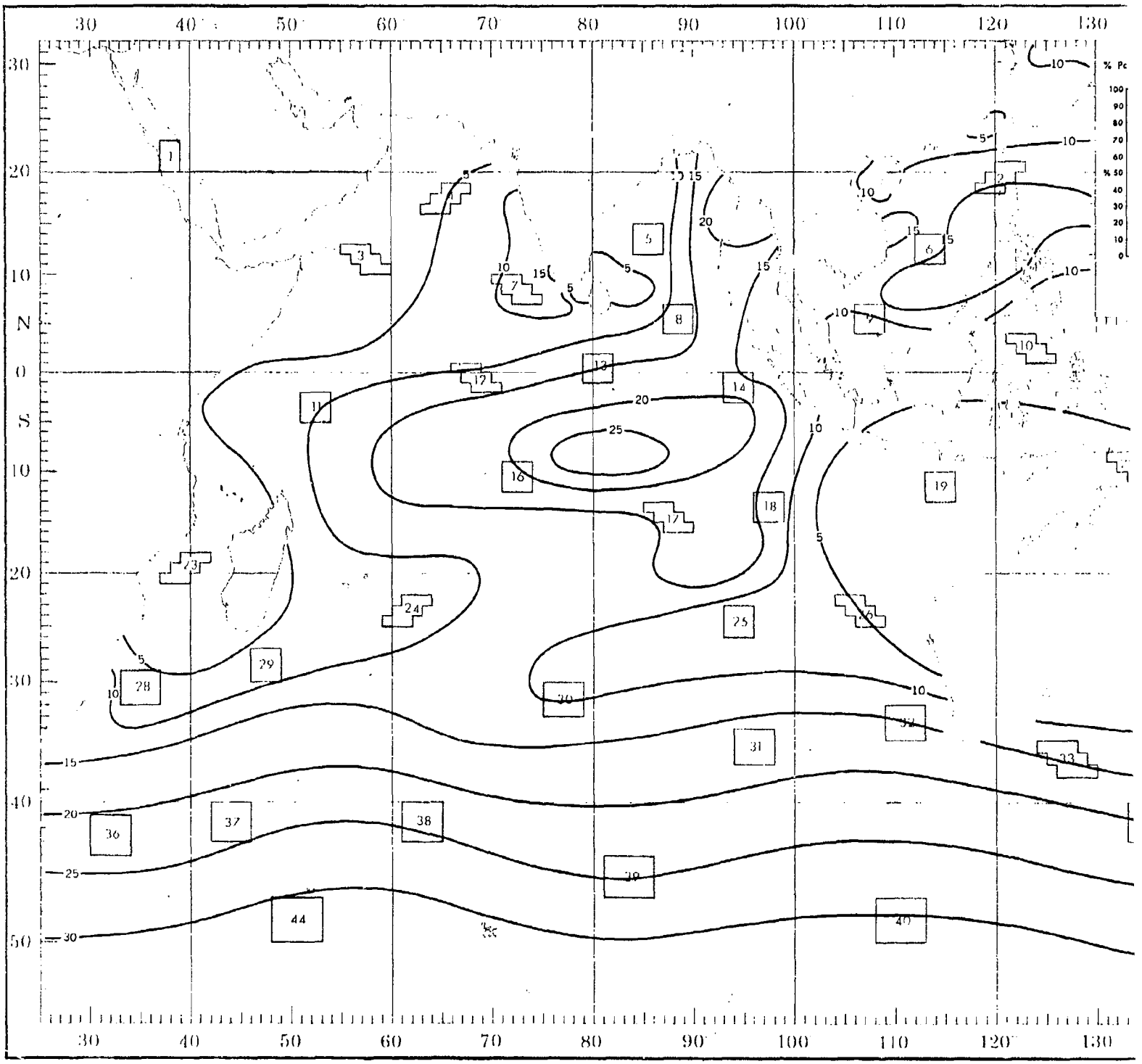
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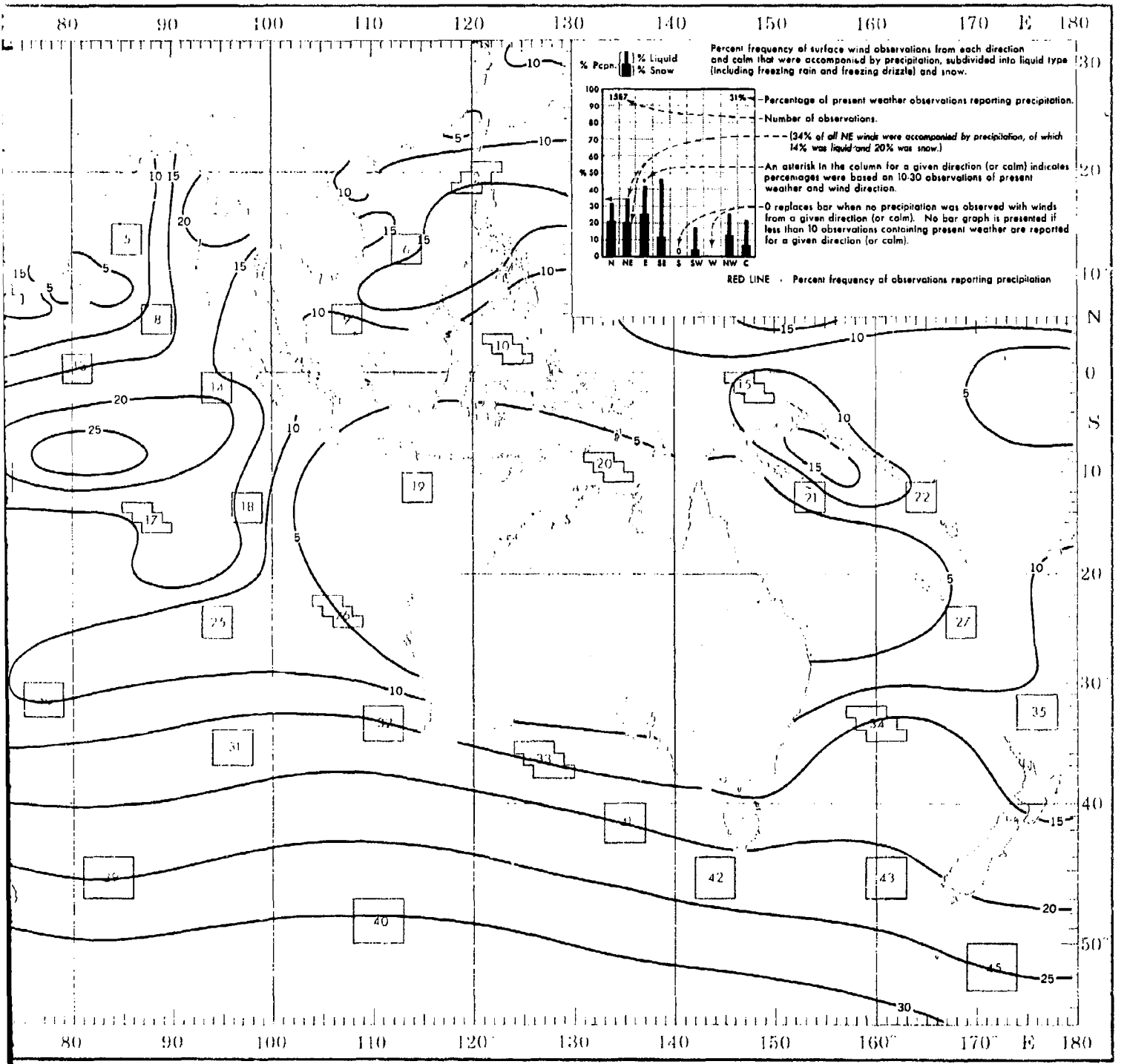
PRECIPITATION



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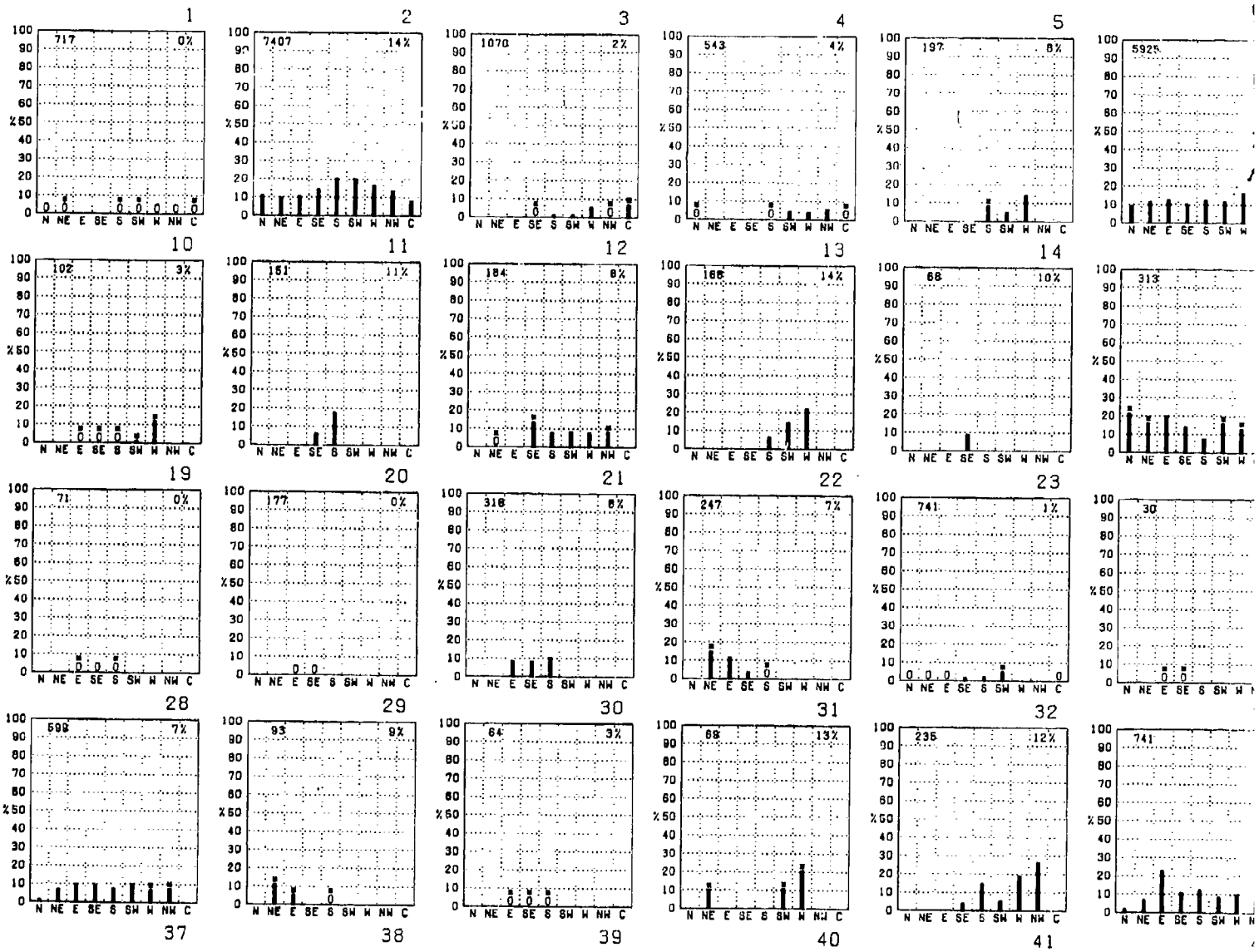

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Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

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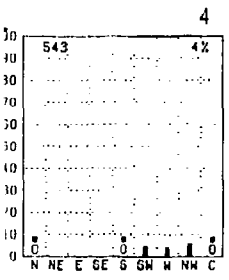

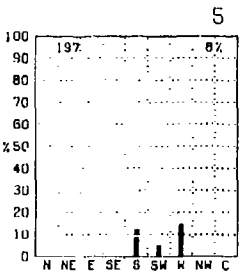

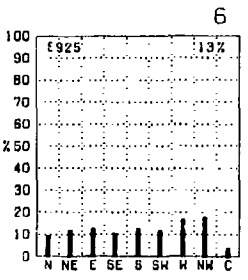

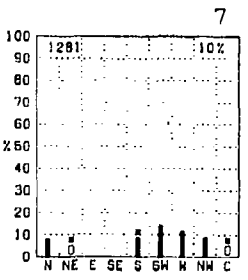

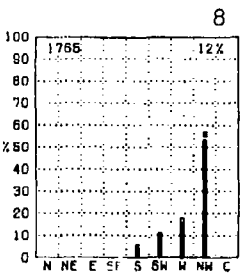

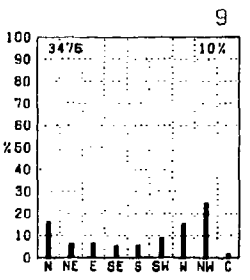

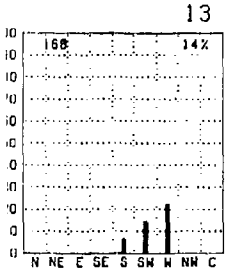

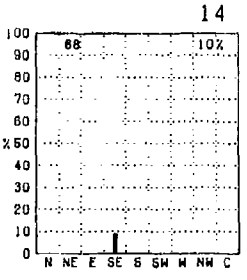

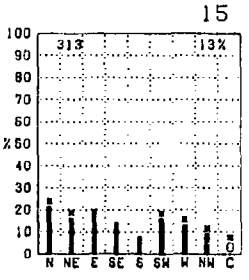

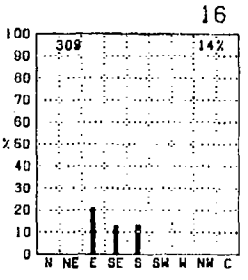

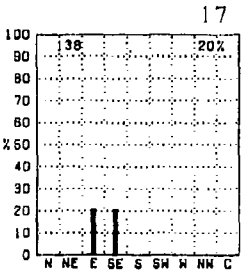

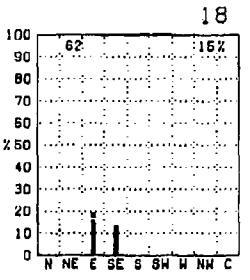

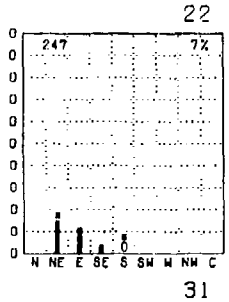

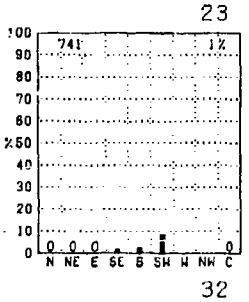

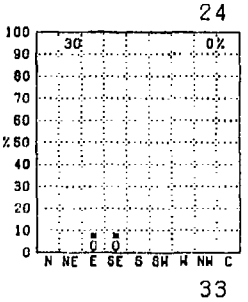

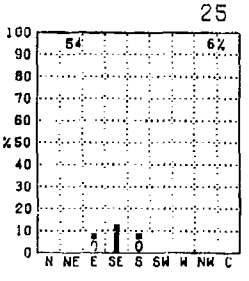

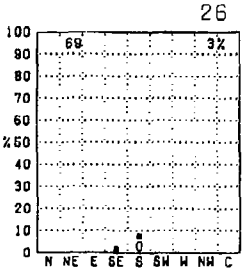

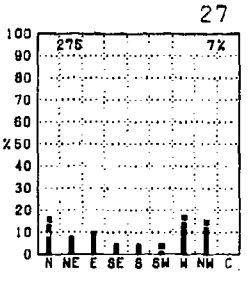

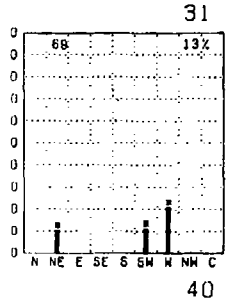

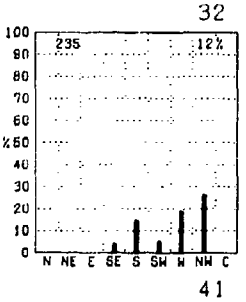

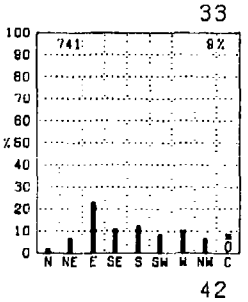

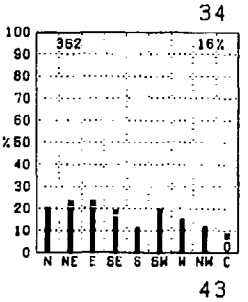

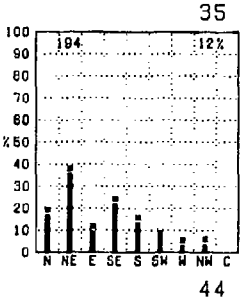

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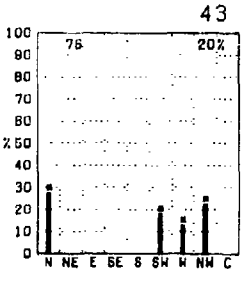

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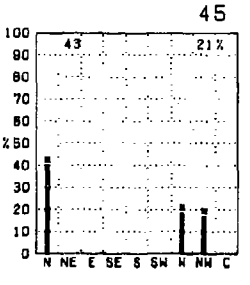

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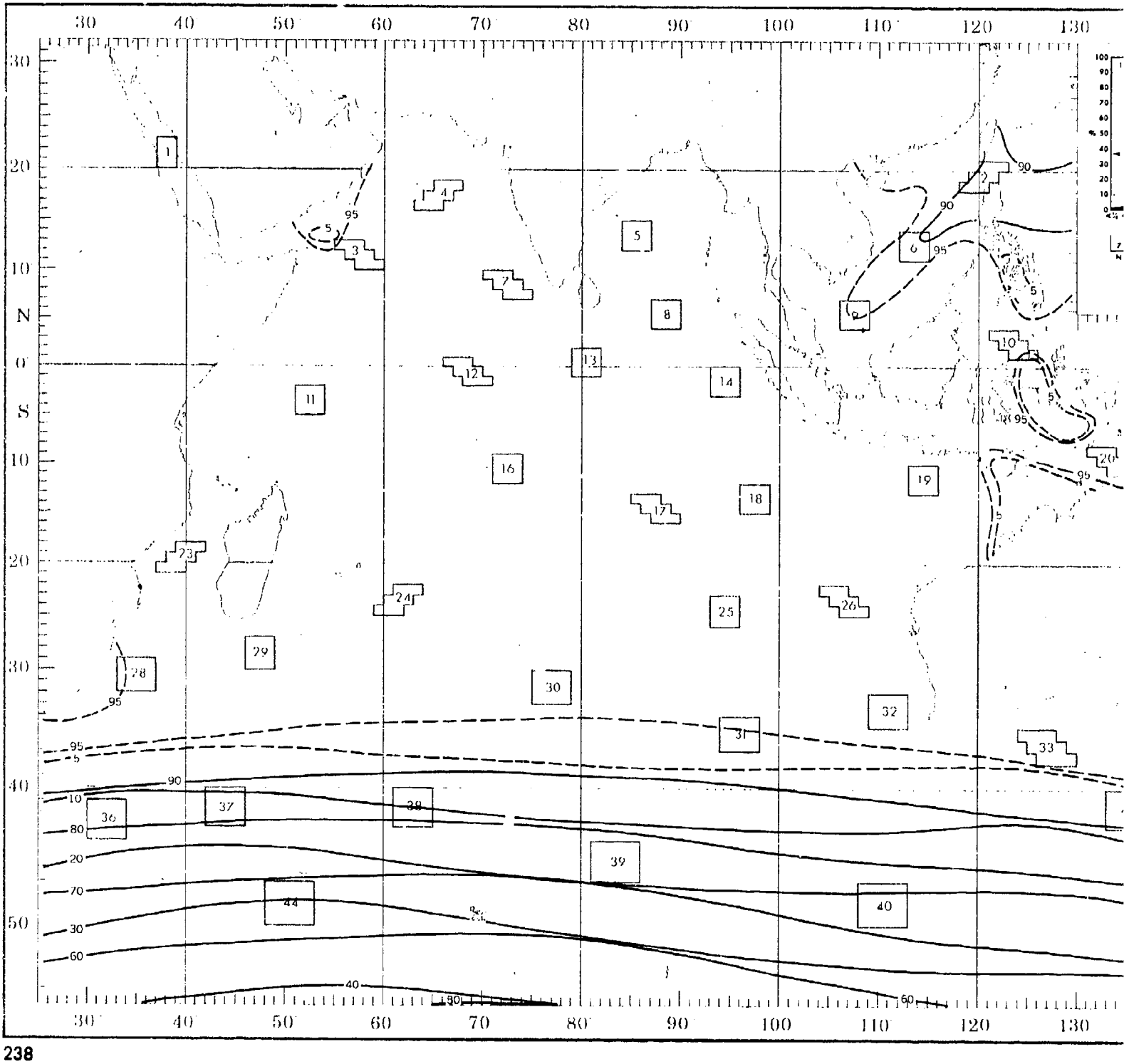
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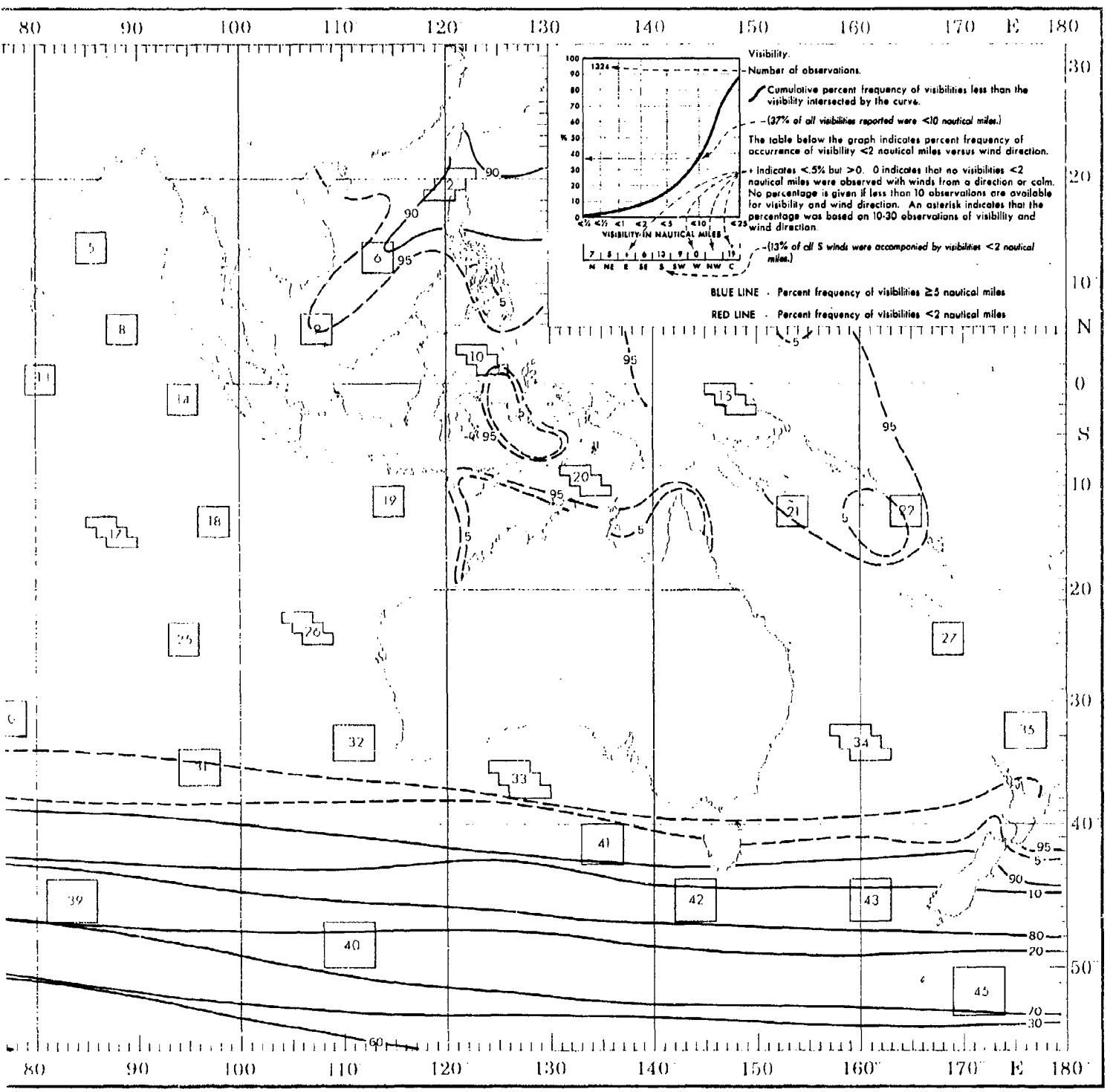
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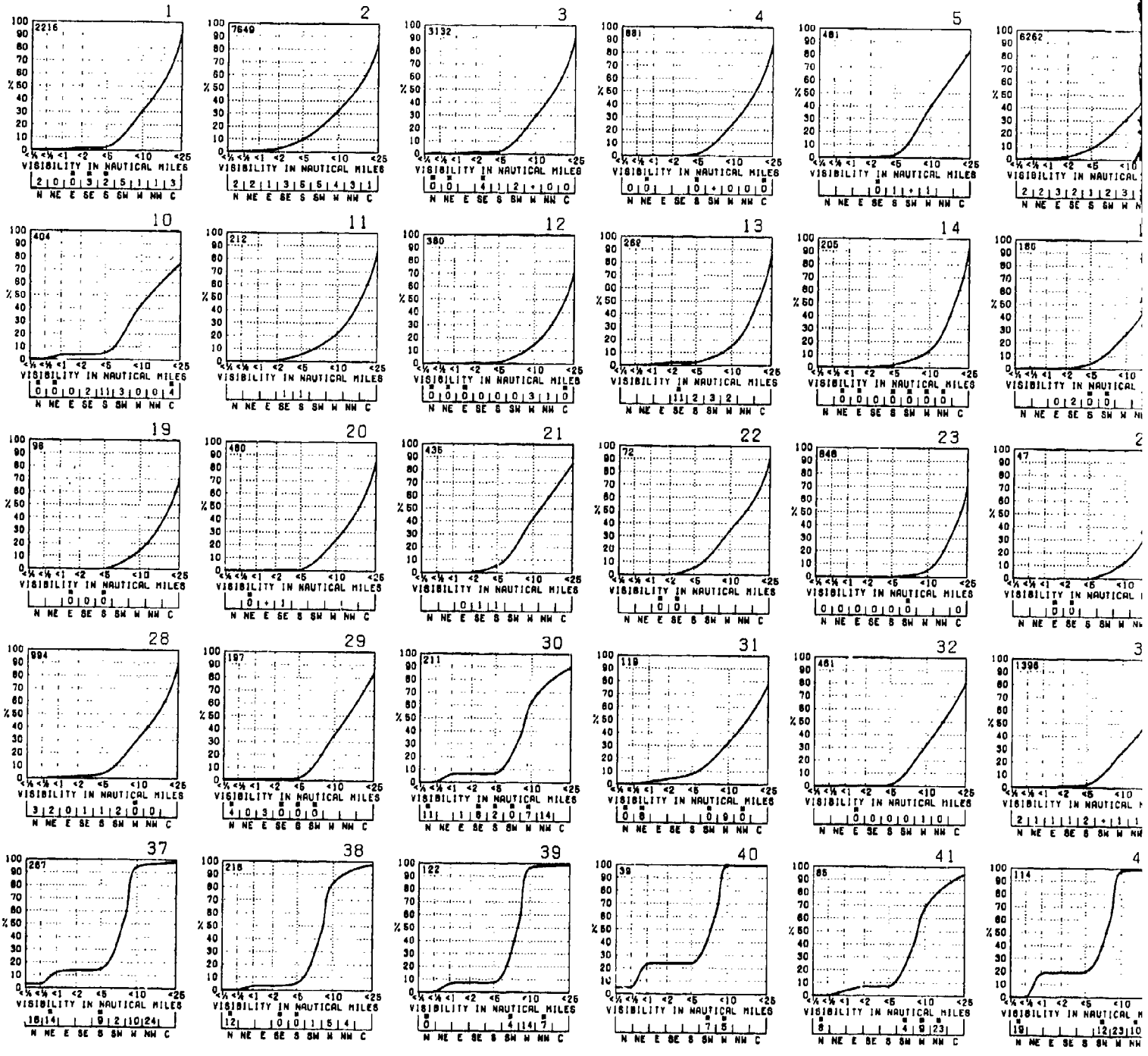
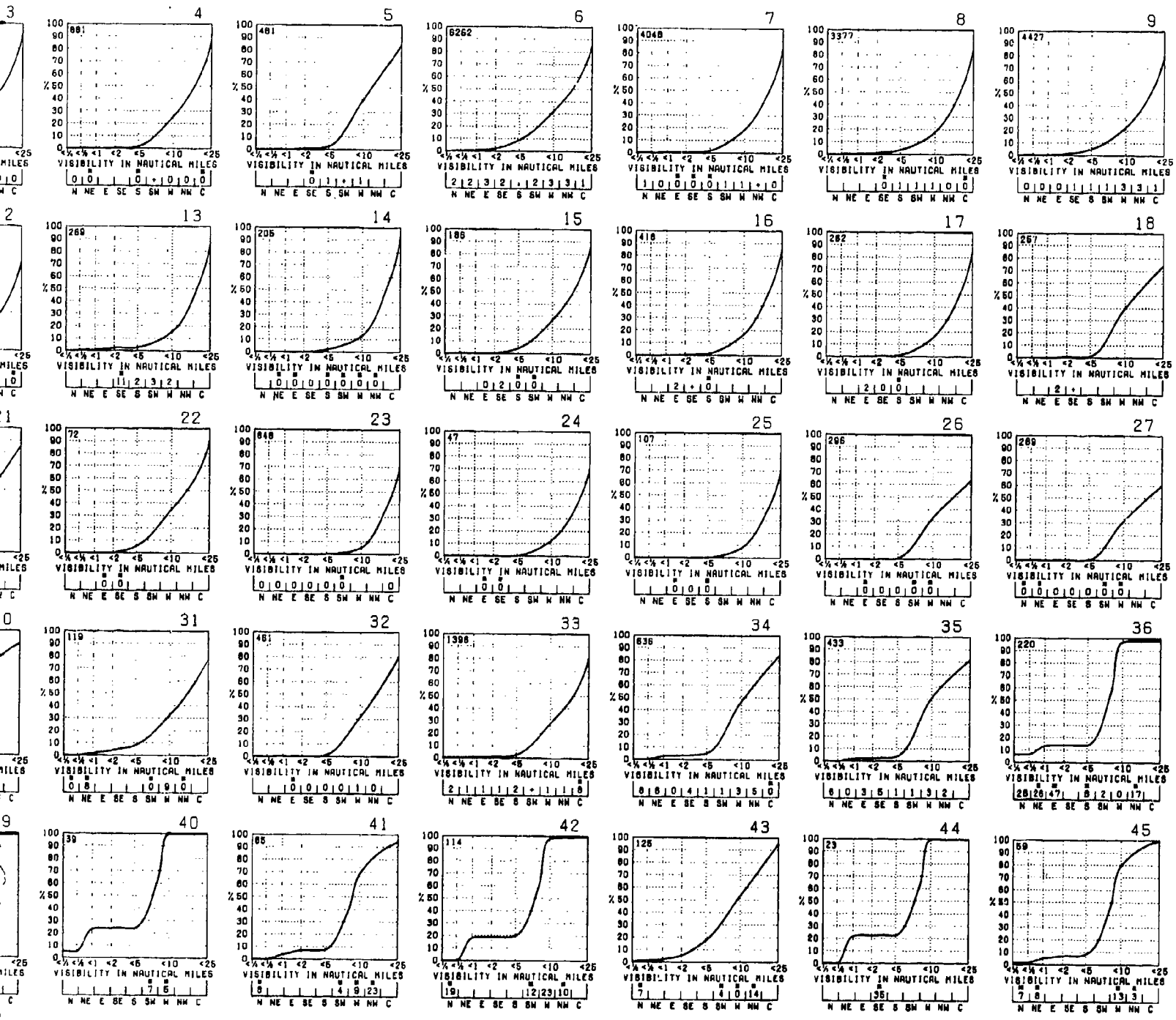
Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
– –(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
+ Indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
–(13% of all S winds were accompanied by visibilities <2 nautical miles.)
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles

VISIBILITY



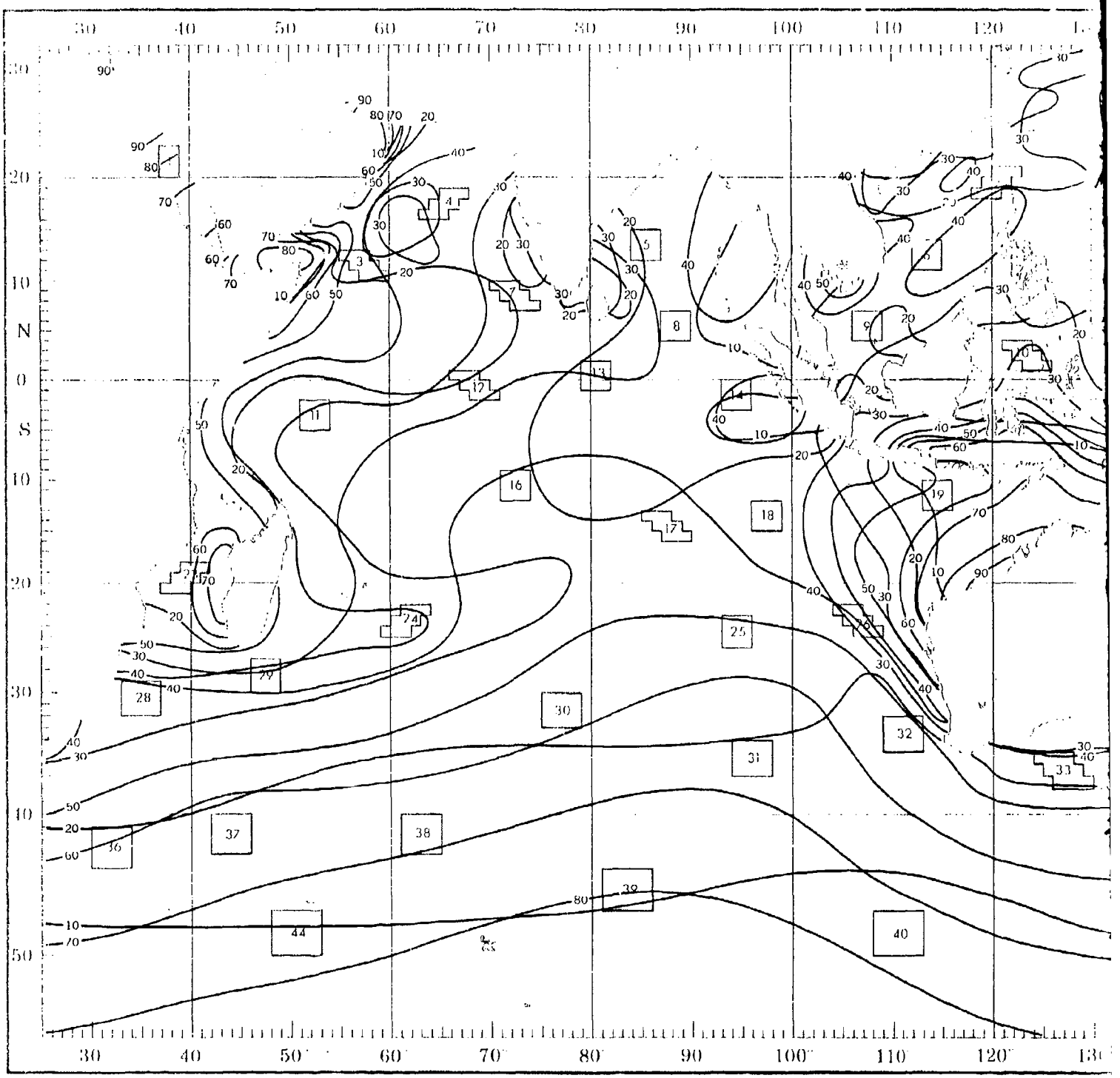
Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

SEPTEMBER



objective compilation of available data for specified areas without regard to suspected biases.
s (opposite page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER


30 40 50 60 70 80 90 100 110 120
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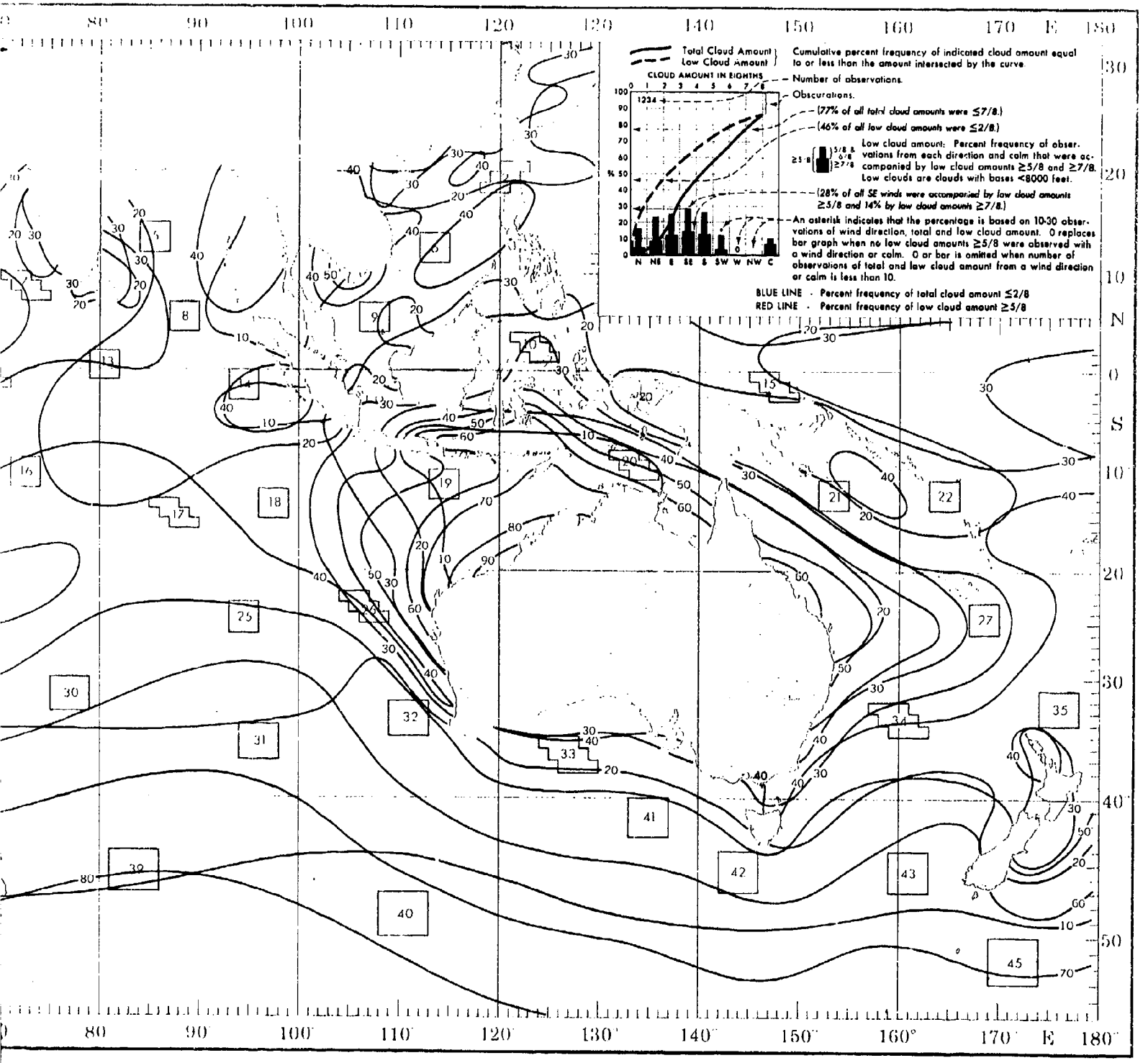
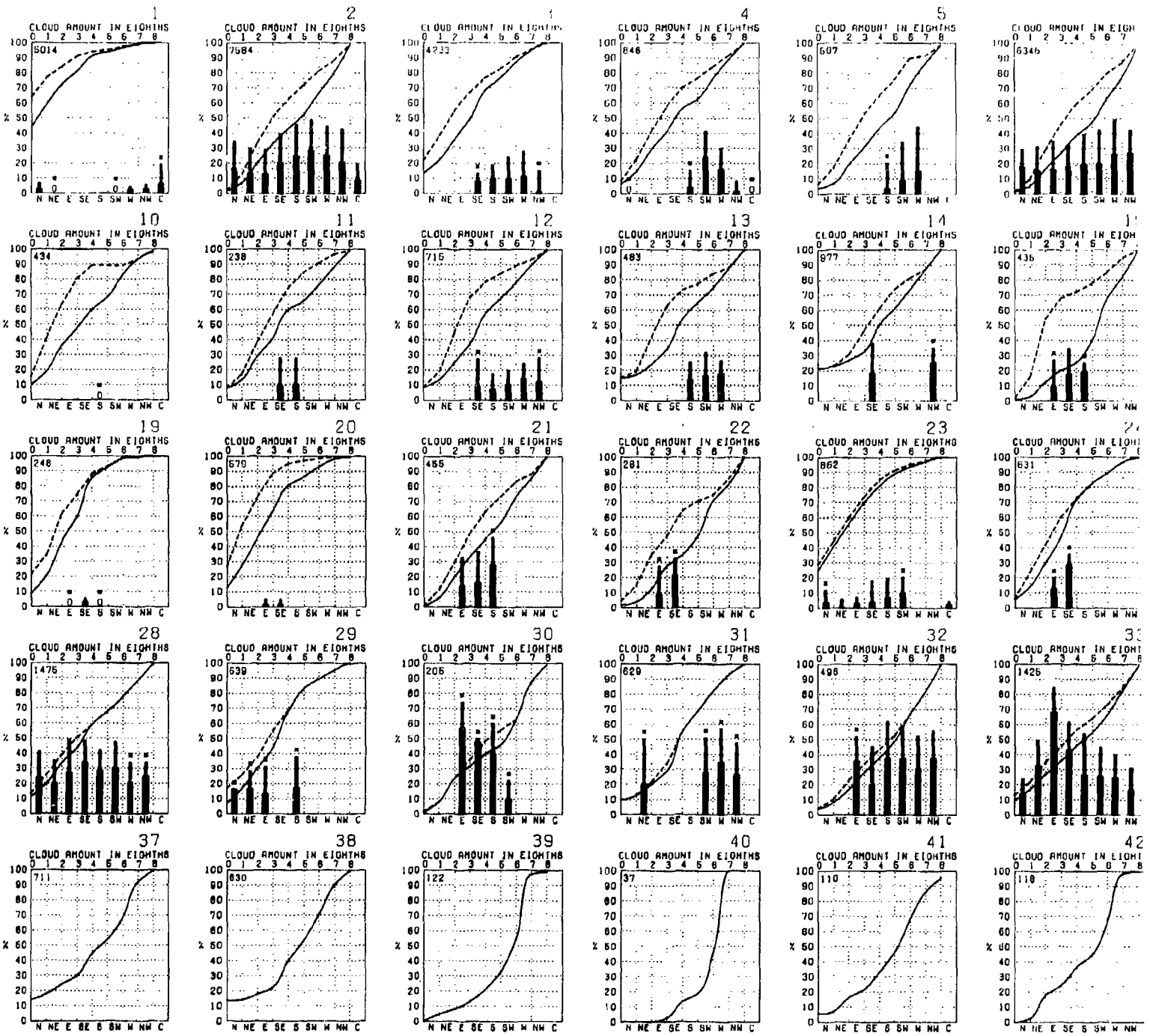
30 40 50 60 70 80 90 100 110 120

CLOUD COVER


Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 N 0 S 10 20 30 40 50

CLOUD COVER



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

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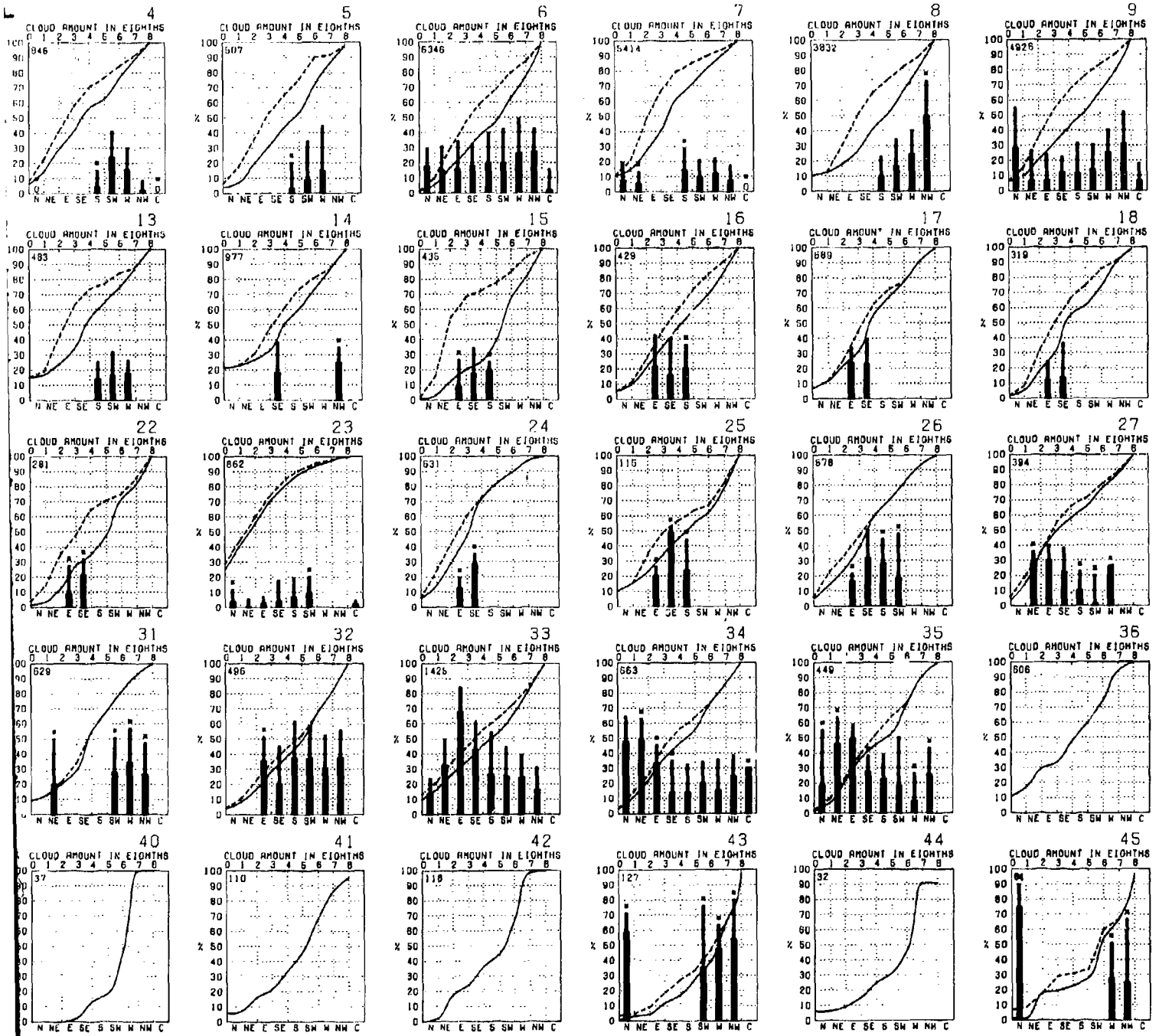
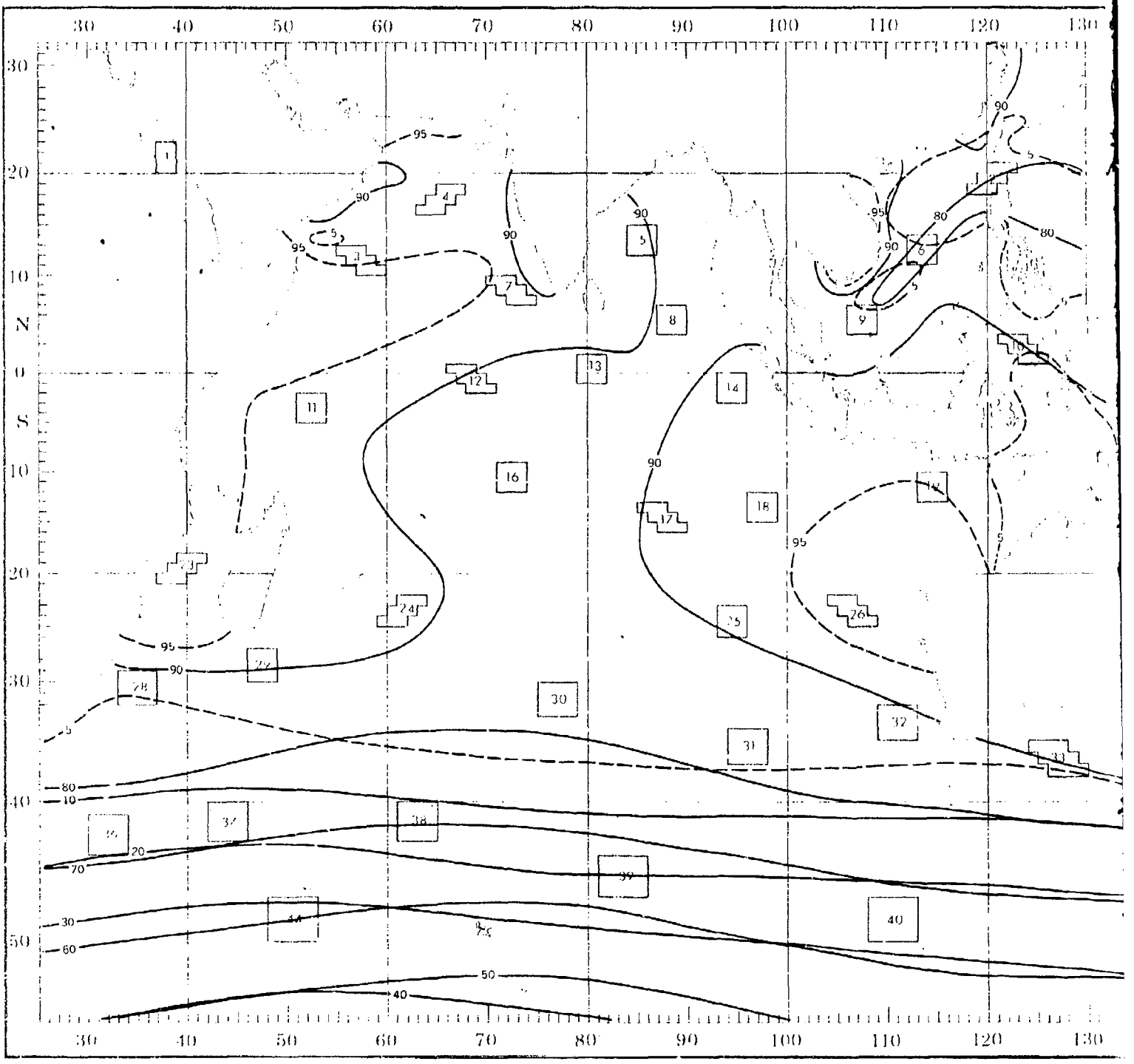


ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER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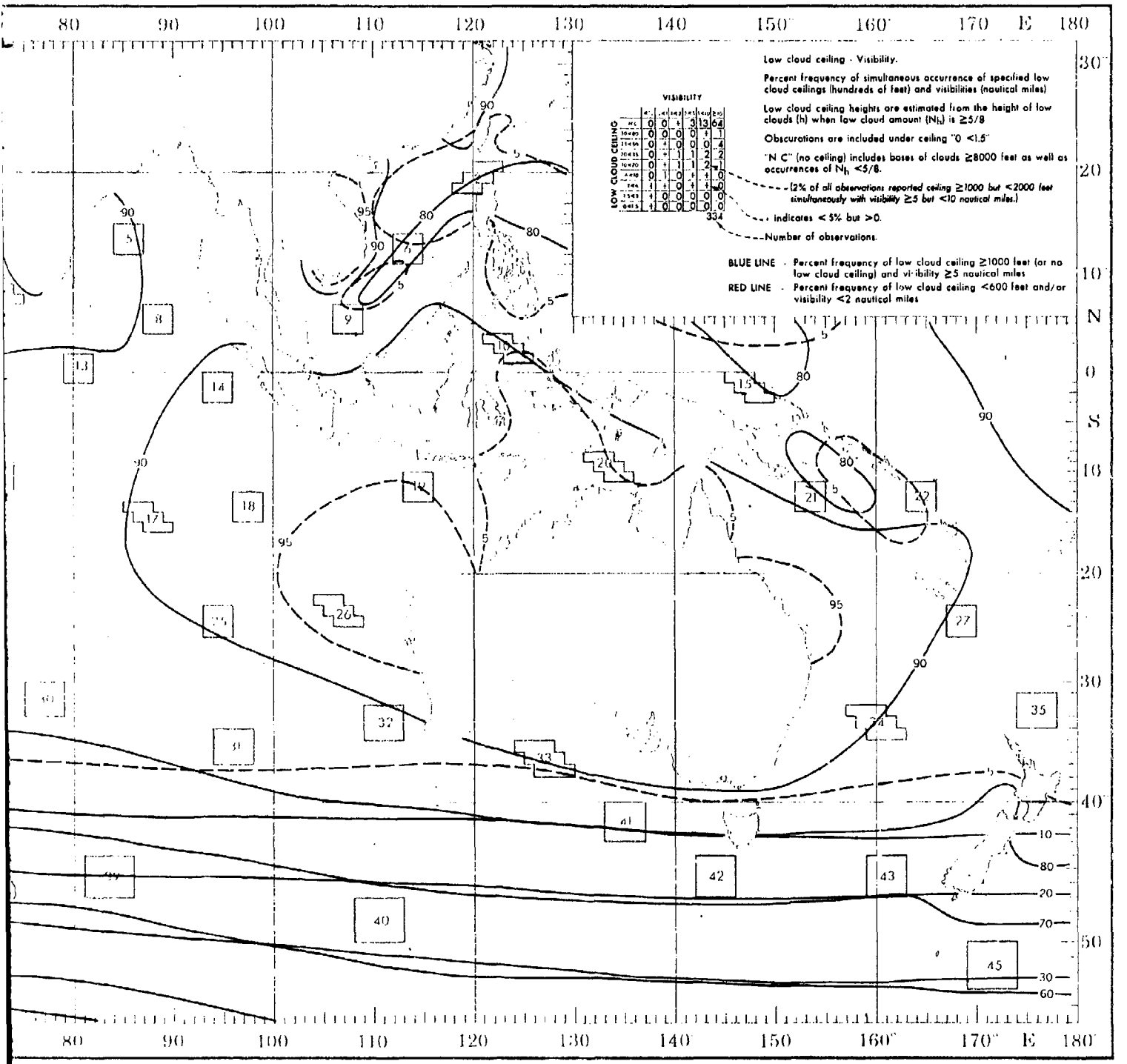
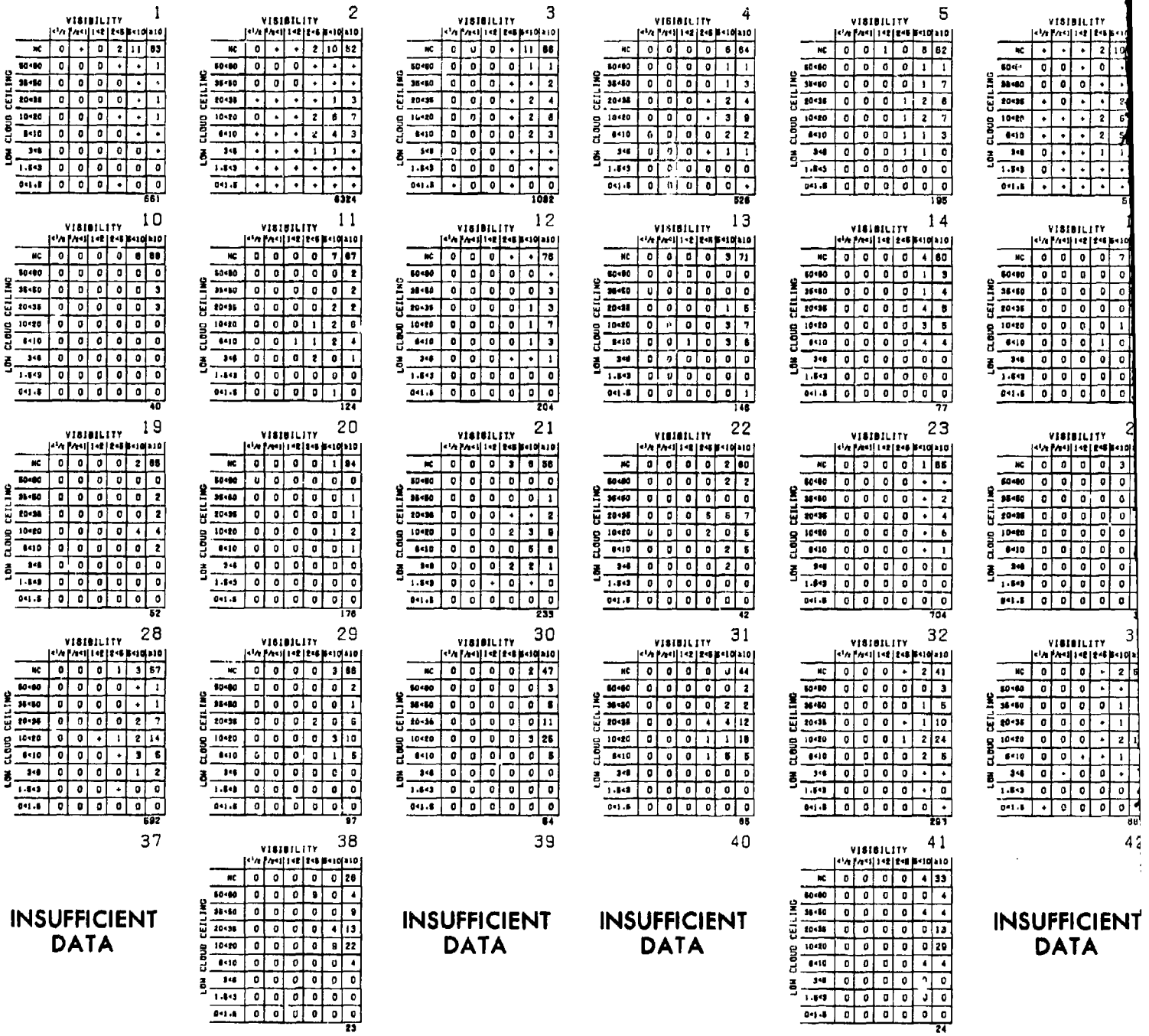
CEILING AND VISIBILITY



CEILING AND VISIBILITY



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

SEPTEMBER

4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	6	64
50+60	0	0	0	0	1	1
35+50	0	0	0	0	1	3
20+35	0	0	0	+	2	4
10+20	0	0	0	+	3	9
6+10	0	0	0	0	2	2
3+6	0	0	0	+	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

526

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	1	0	8	62
50+60	0	0	0	0	1	1
35+50	0	0	0	0	1	7
20+35	0	0	0	1	2	6
10+20	0	0	0	1	2	7
6+10	0	0	0	1	1	3
3+6	0	0	0	1	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

195

6

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	+	+	+	2	10	48
50+60	0	0	+	0	+	+
35+50	0	0	0	+	+	1
20+35	+	0	+	+	2	4
10+20	+	+	+	2	5	9
6+10	+	+	+	2	5	5
3+6	0	+	+	1	1	1
1.5+3	0	+	+	+	+	+
0+1.5	+	+	+	+	+	+

5151

7

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	+	1	5	78
50+60	0	0	0	0	0	1
35+50	0	0	0	+	+	2
20+35	+	0	0	+	1	2
10+20	+	0	+	+	1	5
6+10	0	+	0	+	1	3
3+6	+	0	0	+	+	+
1.5+3	0	0	0	0	+	+
0+1.5	0	0	0	+	0	0

1221

8

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	+	0	1	8	59
50+60	0	0	0	+	+	1
35+50	0	0	0	0	+	1
20+35	0	0	+	+	1	4
10+20	0	0	+	1	4	10
6+10	0	+	+	1	2	5
3+6	0	0	+	+	+	2
1.5+3	0	0	+	+	0	+
0+1.5	0	0	+	+	+	0

1348

9

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	+	1	8	58
50+60	0	0	0	0	+	+
35+50	0	0	0	+	+	1
20+35	0	0	0	+	1	8
10+20	0	+	+	1	3	7
6+10	+	+	+	1	3	4
3+6	+	0	+	+	1	1
1.5+3	0	0	+	+	+	0
0+1.5	+	0	+	+	+	+

2429

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	3	71
50+60	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	1	5
10+20	0	0	0	0	3	7
6+10	0	0	1	0	3	6
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

146

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	4	60
50+60	0	0	0	0	1	3
35+50	0	0	0	0	1	4
20+35	0	0	0	0	4	8
10+20	0	0	0	0	3	5
6+10	0	0	0	0	4	4
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

77

15

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	7	72
50+60	0	0	0	0	0	1
35+50	0	0	0	0	0	1
20+35	0	0	0	0	0	3
10+20	0	0	0	0	1	7
6+10	0	0	0	1	0	7
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

78

16

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	+	8	58
50+60	0	0	0	0	0	+
35+50	0	0	0	0	+	2
20+35	0	0	0	0	+	8
10+20	0	0	0	0	4	12
6+10	0	0	+	+	4	8
3+6	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

306

17

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	2	62
50+60	0	0	0	0	1	1
35+50	0	0	0	1	0	4
20+35	0	0	0	0	1	4
10+20	0	0	0	1	1	15
6+10	0	0	0	0	1	4
3+6	0	0	0	0	1	0
1.5+3	0	0	1	0	0	1
0+1.5	0	0	0	0	0	0

182

18

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	1	0	4	81
50+60	0	0	0	0	0	1
35+50	0	0	0	0	1	9
20+35	0	0	0	0	0	10
10+20	0	0	0	1	2	7
6+10	0	0	1	0	2	2
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

122

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	2	80
50+60	0	0	0	0	0	2
35+50	0	0	0	0	0	0
20+35	0	0	0	5	5	7
10+20	0	0	0	2	0	5
6+10	0	0	0	0	2	5
3+6	0	0	0	0	2	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

42

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	1	86
50+60	0	0	0	0	+	+
35+50	0	0	0	0	+	2
20+35	0	0	0	0	+	4
10+20	0	0	0	0	+	8
6+10	0	0	0	0	+	1
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

704

24

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	3	70
50+60	0	0	0	0	0	0
35+50	0	0	0	0	0	6
20+35	0	0	0	0	0	3
10+20	0	0	0	0	0	12
6+10	0	0	0	0	0	6
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

33

25

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	0	59
50+60	0	0	0	0	0	0
35+50	0	0	0	0	6	1
20+35	0	0	0	0	0	9
10+20	0	0	0	0	0	19
6+10	0	0	0	0	0	5
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

75

26

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	0	67
50+60	0	0	0	0	0	7
35+50	0	0	0	0	1	15
20+35	0	0	0	1	1	11
10+20	0	0	0	0	1	1
6+10	0	0	0	0	1	4
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

148

27

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	3	66
50+60	0	0	0	0	0	1
35+50	0	0	0	0	0	4
20+35	0	0	0	0	1	7
10+20	0	0	0	0	2	12
6+10	0	0	0	0	3	3
3+6	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	1	0

178

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	0	44
50+60	0	0	0	0	0	2
35+50	0	0	0	0	2	2
20+35	0	0	0	4	4	12
10+20	0	0	0	1	1	18
6+10	0	0	0	1	6	5
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

85

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	+	2	41
50+60	0	0	0	0	1	5
35+50	0	0	0	+	1	10
20+35	0	0	0	1	2	24
10+20	0	0	0	0	2	5
6+10	0	0	0	0	+	+
3+6	0	0	0	0	+	0
1.5+3	0	0	0	0	0	+
0+1.5	0	0	0	0	0	+

293

33

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	+	2	56
50+60	0	0	0	+	+	1
35+50	0	0	0	0	1	8
20+35	0	0	0	+	1	8
10+20	0	0	0	+	2	15
6+10	0	0	+	+	1	8
3+6	0	+	0	0	+	+
1.5+3	0	0	0	0	0	0
0+1.5	+	0	0	0	0	0

887

34

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	+	4	53
50+60	0	0	0	0	0	+
35+50	0	0	0	0	+	2
20+35	0	0	0	0	1	5
10+20	0	0	0	+	5	12
6+10	0	+	+	2	5	6
3+6	0	+	+	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	+	0	0	0	0

330

35

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	4	48
50+60	0	0	0	0	0	1
35+50	0	0	0	0	1	1
20+35	0	0	0	0	1	8
10+20	0	0	0	1	2	15
6+10	0	0	0	1	4	10
3+6	0	0	0	1	0	0
1.5+3	0	0	1	0	0	0
0+1.5	0	0	0	1	0	1

193

36

INSUFFICIENT DATA

40

SUFFICIENT DATA

41

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	4	33
50+60	0	0	0	0	0	4
35+50	0	0	0	0	4	4
20+35	0	0	0	0	0	13
10+20	0	0	0	0	0	20
6+10	0	0	0	0	4	4
3+6	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

24

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	1	0	30
50+60	0	0	0	0	0	1
35+50	0	0	0	3	3	1
20+35	0	0	0	0	3	5
10+20	0	0	0	3	11	14
6+10	0	0	0	3	3	11
3+6	0	0	1	3	0	1
1.5+3	0	0	0	0	0	0
0+1.5	3	1	0	0	0	0

78

44

INSUFFICIENT DATA

45

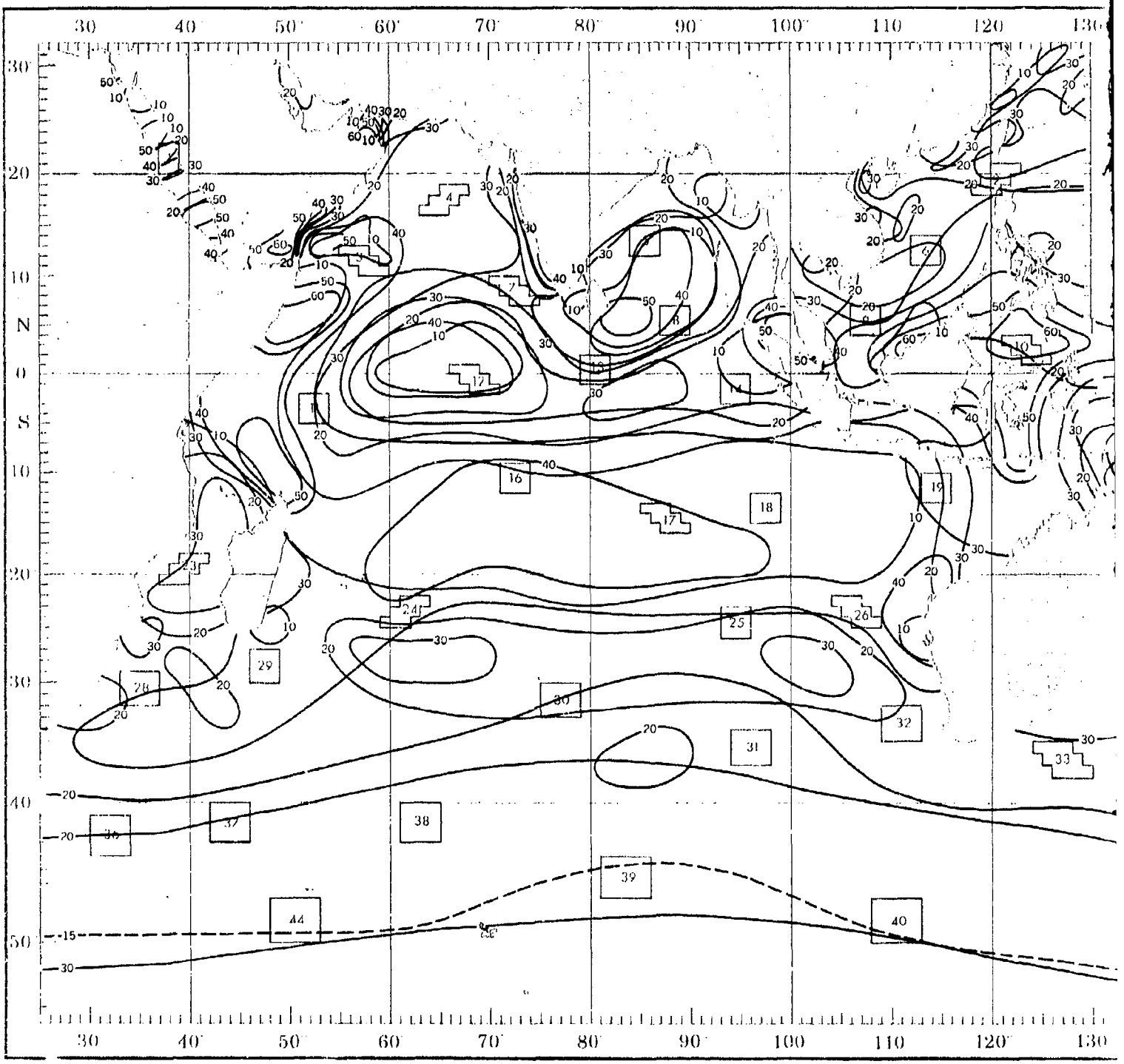
LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<6	6-<10	≥10
NC	0	0	0	0	20	11
50+60	0	0	0	0	7	0
35+50	0	0	0	0	2	0
20+35	0	0	0	2	11	8
10+20	0	0	0	0	22	7
6+10	0	0	0	0	2	0
3+6	0	0	2	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	4	0	0	0	0

48

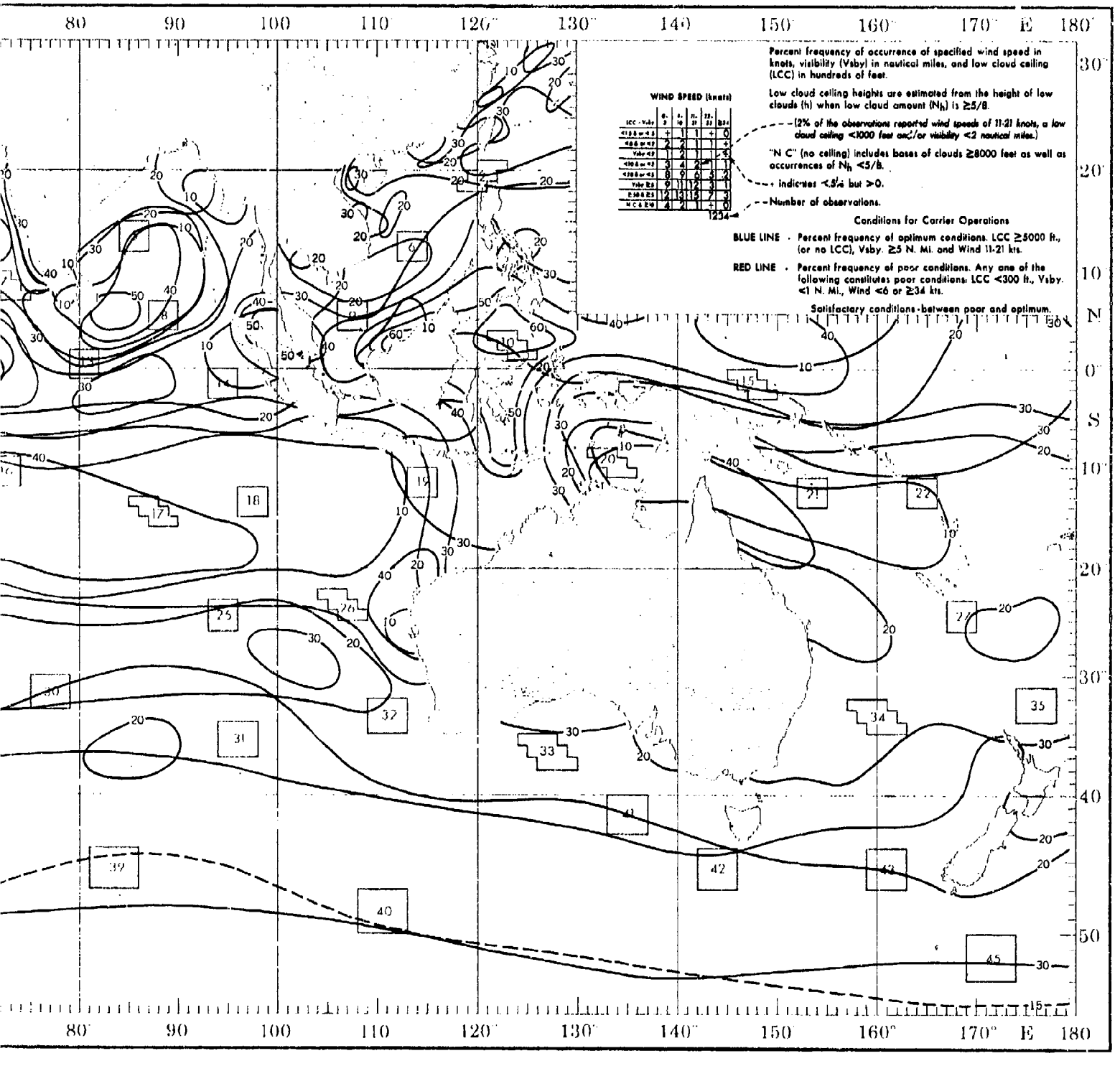
e compilation of available data for specified areas without regard to suspected biases.
e page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER

WIN



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	+	0	0	0
<6 & OR <2	0	+	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	+	0	0
<20 & OR <5	1	1	2	0	0
VSBY ≥5	7	38	52	3	0
≥30 & ≥5	6	35	51	3	0
NC & ≥10	5	32	44	2	0

664

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	+	+	1	+	+
<6 & OR <2	+	2	3	1	+
VSBY <2	+	1	1	+	+
<10 & OR <2	+	4	7	2	1
<20 & OR <5	1	8	17	4	1
VSBY ≥5	5	33	43	9	+
≥30 & ≥5	4	25	29	5	+
NC & ≥10	3	21	24	3	+

6294

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	+	+	0	0
<6 & OR <2	0	+	+	+	0
VSBY <2	0	+	0	0	0
<10 & OR <2	0	1	2	2	0
<20 & OR <5	+	3	8	3	0
VSBY ≥5	3	25	54	17	+
≥30 & ≥5	3	21	42	12	+
NC & ≥10	3	20	36	8	+

1076

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	+	4	1	0
<20 & OR <5	+	1	15	2	0
VSBY ≥5	8	39	48	8	0
≥30 & ≥5	7	34	30	2	0
NC & ≥10	6	32	25	1	0

617

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	2	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	1	1	4	1	0
<20 & OR <5	1	3	12	1	0
VSBY ≥5	6	32	66	3	0
≥30 & ≥5	4	26	36	3	0
NC & ≥10	4	25	31	1	0

193

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-
<1 & OR <.5	0	+	1	+
<6 & OR <2	+	2	3	1
VSBY <2	+	+	1	+
<10 & OR <2	1	5	9	2
<20 & OR <5	1	11	19	4
VSBY ≥5	7	37	42	9
≥30 & ≥5	6	27	24	2
NC & ≥10	5	23	19	1

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	0	0	0	0
VSBY ≥5	36	50	15	0	0
≥30 & ≥5	33	48	15	0	0
NC & ≥10	28	45	15	0	0

40

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	1	0	0
<6 & OR <2	0	0	4	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	9	0	0
<20 & OR <5	0	3	15	2	0
VSBY ≥5	4	45	44	3	0
≥30 & ≥5	4	39	32	1	0
NC & ≥10	3	34	29	1	0

124

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	2	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	8	1	0	0
<20 & OR <5	0	12	4	0	0
VSBY ≥5	18	74	8	1	0
≥30 & ≥5	14	59	3	1	0
NC & ≥10	14	59	3	1	0

196

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	1	0	0
<6 & OR <2	0	1	1	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	6	3	0	0
<20 & OR <5	2	8	9	1	0
VSBY ≥5	10	55	35	1	0
≥30 & ≥5	8	44	22	1	0
NC & ≥10	8	40	22	1	0

148

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	1	4	0	0
<20 & OR <5	3	7	7	0	0
VSBY ≥5	17	53	30	0	0
≥30 & ≥5	14	36	17	0	0
NC & ≥10	13	32	14	0	0

76

1

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-33
<1 & OR <.5	0	0	0	0
<6 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	1	4	3	0
<20 & OR <5	3	11	3	0
VSBY ≥5	21	59	18	0
≥30 & ≥5	18	46	16	0
NC & ≥10	17	41	14	0

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	2	0	0
<20 & OR <5	0	2	8	0	0
VSBY ≥5	2	63	36	0	0
≥30 & ≥5	2	58	27	0	0
NC & ≥10	2	56	27	0	0

52

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	0	0	0
<20 & OR <5	0	2	1	0	0
VSBY ≥5	3	48	48	0	0
≥30 & ≥5	3	45	47	0	0
NC & ≥10	3	45	48	0	0

175

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	+	6	+	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	3	10	3	0
<20 & OR <5	0	6	24	5	0
VSBY ≥5	2	22	60	10	0
≥30 & ≥5	2	16	39	5	0
NC & ≥10	2	14	36	4	0

231

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	5	0	0
<20 & OR <5	0	12	10	0	0
VSBY ≥5	5	33	52	2	0
≥30 & ≥5	5	29	31	2	0
NC & ≥10	5	21	31	2	0

42

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	+	1	0	0
<20 & OR <5	1	2	4	1	0
VSBY ≥5	16	49	32	3	0
≥30 & ≥5	16	44	26	2	0
NC & ≥10	16	44	23	2	0

699

2

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-
<1 & OR <.5	0	0	0	0
<6 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	0	3	3
<20 & OR <5	0	3	9	6
VSBY ≥5	0	62	39	9
≥30 & ≥5	0	42	27	3
NC & ≥10	0	38	27	3

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	1	2	+	0
VSBY <2	0	0	+	0	0
<10 & OR <2	+	3	6	2	1
<20 & OR <5	1	7	18	5	1
VSBY ≥5	4	30	47	15	2
≥30 & ≥5	3	20	28	10	1
NC & ≥10	3	19	25	9	1

587

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	2	1	1
<20 & OR <5	0	8	8	8	1
VSBY ≥5	2	30	48	15	1
≥30 & ≥5	2	22	36	11	0
NC & ≥10	2	21	32	11	0

97

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	2	0
<20 & OR <5	3	15	13	2	0
VSBY ≥5	8	45	43	2	0
≥30 & ≥5	5	27	21	0	0
NC & ≥10	3	25	19	0	0

63

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	4	2	0
<20 & OR <5	1	12	14	7	0
VSBY ≥5	2	38	39	14	0
≥30 & ≥5	0	23	18	5	0
NC & ≥10	0	21	18	4	0

84

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	+	0	0	0
<6 & OR <2	+	+	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	4	2	+
<20 & OR <5	2	12	18	4	+
VSBY ≥5	5	38	44	11	1
≥30 & ≥5	2	20	19	4	+
NC & ≥10	2	18	17	4	0

290

3

WIND SPEED (KNOT

LCC - VSBY	0-3	4-10	11-21	22-
<1 & OR <.5	+	+	0	0
<6 & OR <2	+	+	1	0
VSBY <2	+	+	+	0
<10 & OR <2	1	3	4	1
<20 & OR <5	1	8	13	4
VSBY ≥5	4	31	48	16
≥30 & ≥5	2	19	27	10
NC & ≥10	2	18	26	9

37

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	7	0
<20 & OR <5	0	20	7	7	0
VSBY ≥5	0	27	47	27	0
≥30 & ≥5	0	7	27	7	0
NC & ≥10	0	7	20	7	0

15

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	4	0	0
<20 & OR <5	0	0	30	13	0
VSBY ≥5	0	9	67	9	17
≥30 & ≥5	0	9	13	0	9
NC & ≥10	0	9	13	0	4

29

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	8	0	0
<20 & OR <5	0	17	17	4	0
VSBY ≥5	4	29	54	13	0
≥30 & ≥5	4	0	33	4	0
NC & ≥10	4	0	29	0	0

24

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<5 & OR <2	0	+	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	+	4	1	0
<20 & OR <5	+	1	15	2	0
VSBY ≥5	8	39	49	5	0
≥50 & ≥5	7	34	30	2	0
NC & ≥10	8	32	25	1	0

617

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	1	1	4	1	0
<20 & OR <5	1	3	12	1	0
VSBY ≥5	5	32	55	3	0
≥50 & ≥5	4	26	38	3	0
NC & ≥10	4	25	31	1	0

193

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	1	+	+
<5 & OR <2	+	2	3	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	1	5	9	2	+
<20 & OR <5	1	11	19	4	+
VSBY ≥5	7	37	42	6	+
≥50 & ≥5	6	27	24	2	+
NC & ≥10	5	23	19	1	+

5115

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	0
<5 & OR <2	+	+	1	+	0
VSBY <2	0	0	+	+	0
<10 & OR <2	+	2	3	+	0
<20 & OR <5	+	6	7	1	0
VSBY ≥5	5	55	36	2	0
≥50 & ≥5	5	47	28	1	0
NC & ≥10	5	48	25	1	0

1212

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	+	0
<5 & OR <2	+	1	3	+	0
VSBY <2	0	+	1	+	0
<10 & OR <2	+	2	8	2	+
<20 & OR <5	+	5	19	4	+
VSBY ≥5	1	26	61	8	+
≥50 & ≥5	1	20	40	4	+
NC & ≥10	1	19	35	3	+

1345

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	1	+	0
<5 & OR <2	+	1	3	1	+
VSBY <2	+	+	1	+	+
<10 & OR <2	1	6	8	1	+
<20 & OR <5	1	11	11	1	+
VSBY ≥5	10	50	34	1	0
≥50 & ≥5	8	37	21	+	0
NC & ≥10	7	33	17	+	0

2409

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	6	3	0	0
<20 & OR <5	2	8	9	1	0
VSBY ≥5	10	55	33	1	0
≥50 & ≥5	8	44	22	1	0
NC & ≥10	8	40	22	1	0

146

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	3	1	4	0	0
<20 & OR <5	3	7	7	0	0
VSBY ≥5	17	53	30	0	0
≥50 & ≥5	14	36	17	0	0
NC & ≥10	13	32	14	0	0

76

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	3	0	0
<20 & OR <5	3	11	3	0	0
VSBY ≥5	21	59	18	0	0
≥50 & ≥5	18	48	18	0	0
NC & ≥10	17	41	14	0	0

76

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<5 & OR <2	0	0	1	1	0
VSBY <2	0	0	+	0	0
<10 & OR <2	0	1	10	3	0
<20 & OR <5	0	4	20	6	0
VSBY ≥5	1	15	71	11	1
≥50 & ≥5	1	10	44	8	+
NC & ≥10	1	9	40	5	+

306

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	0	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	1	4	2	0
<20 & OR <5	0	1	16	8	1
VSBY ≥5	0	14	60	24	1
≥50 & ≥5	0	12	40	14	0
NC & ≥10	0	11	38	13	0

162

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	1	1	0	0
<10 & OR <2	0	2	3	0	0
<20 & OR <5	0	3	10	1	0
VSBY ≥5	0	11	70	16	0
≥50 & ≥5	0	9	47	11	0
NC & ≥10	0	8	49	11	0

122

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	5	0	0
<20 & OR <5	0	12	10	0	0
VSBY ≥5	5	33	52	2	0
≥50 & ≥5	5	29	31	2	0
NC & ≥10	5	21	31	2	0

42

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	0	0
<20 & OR <5	1	2	4	1	0
VSBY ≥5	16	49	32	3	0
≥50 & ≥5	15	44	25	2	0
NC & ≥10	15	44	25	2	0

889

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	0	0
<20 & OR <5	0	3	8	0	0
VSBY ≥5	0	62	30	0	0
≥50 & ≥5	0	42	27	3	0
NC & ≥10	0	39	27	3	0

33

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	3	0	0
<20 & OR <5	1	13	11	0	0
VSBY ≥5	8	46	45	0	0
≥50 & ≥5	8	31	24	0	0
NC & ≥10	8	31	24	0	0

71

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	3	0	0
<20 & OR <5	0	1	5	2	0
VSBY ≥5	5	36	53	8	0
≥50 & ≥5	4	26	30	3	0
NC & ≥10	4	22	27	3	0

144

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	5	1	0
<20 & OR <5	1	9	11	1	0
VSBY ≥5	8	41	45	8	0
≥50 & ≥5	5	31	28	5	0
NC & ≥10	4	29	27	5	0

176

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	5	4	2	0
<20 & OR <5	1	12	14	7	0
VSBY ≥5	2	36	39	14	0
≥50 & ≥5	0	23	18	5	0
NC & ≥10	0	21	18	4	0

84

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<5 & OR <2	+	+	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	4	2	+
<20 & OR <5	2	12	18	4	+
VSBY ≥5	5	38	44	11	1
≥50 & ≥5	2	20	18	4	+
NC & ≥10	2	18	17	4	0

290

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	0	0	0
<5 & OR <2	+	+	1	0	0
VSBY <2	+	+	+	0	0
<10 & OR <2	1	3	4	1	0
<20 & OR <5	1	8	13	4	1
VSBY ≥5	4	31	48	16	2
≥50 & ≥5	2	18	27	10	1
NC & ≥10	2	18	26	9	1

877

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	+
<5 & OR <2	+	1	1	1	1
VSBY <2	0	1	+	0	1
<10 & OR <2	+	2	7	8	1
<20 & OR <5	1	5	15	11	2
VSBY ≥5	4	20	51	19	2
≥50 & ≥5	2	14	33	7	1
NC & ≥10	2	12	31	8	1

324

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	1	0
<5 & OR <2	0	1	0	1	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	4	9	3	1
<20 & OR <5	1	10	18	7	2
VSBY ≥5	6	31	45	12	3
≥50 & ≥5	5	20	24	4	2
NC & ≥10	4	18	24	2	1

183

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	8	0	0
<20 & OR <5	0	17	17	4	0
VSBY ≥5	4	29	54	13	0
≥50 & ≥5	4	0	33	4	0
NC & ≥10	4	0	29	0	0

24

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	3	0	0
<5 & OR <2	0	3	4	3	0
VSBY <2	0	3	3	0	0
<10 & OR <2	0	3	15	7	0
<20 & OR <5	0	11	27	15	4
VSBY ≥5	0	18	45	21	1
≥50 & ≥5	0	6	18	11	0
NC & ≥10	0	5	16	11	0

75

44

INSUFFICIENT DATA

45

WIND SPEED (KNOTS)

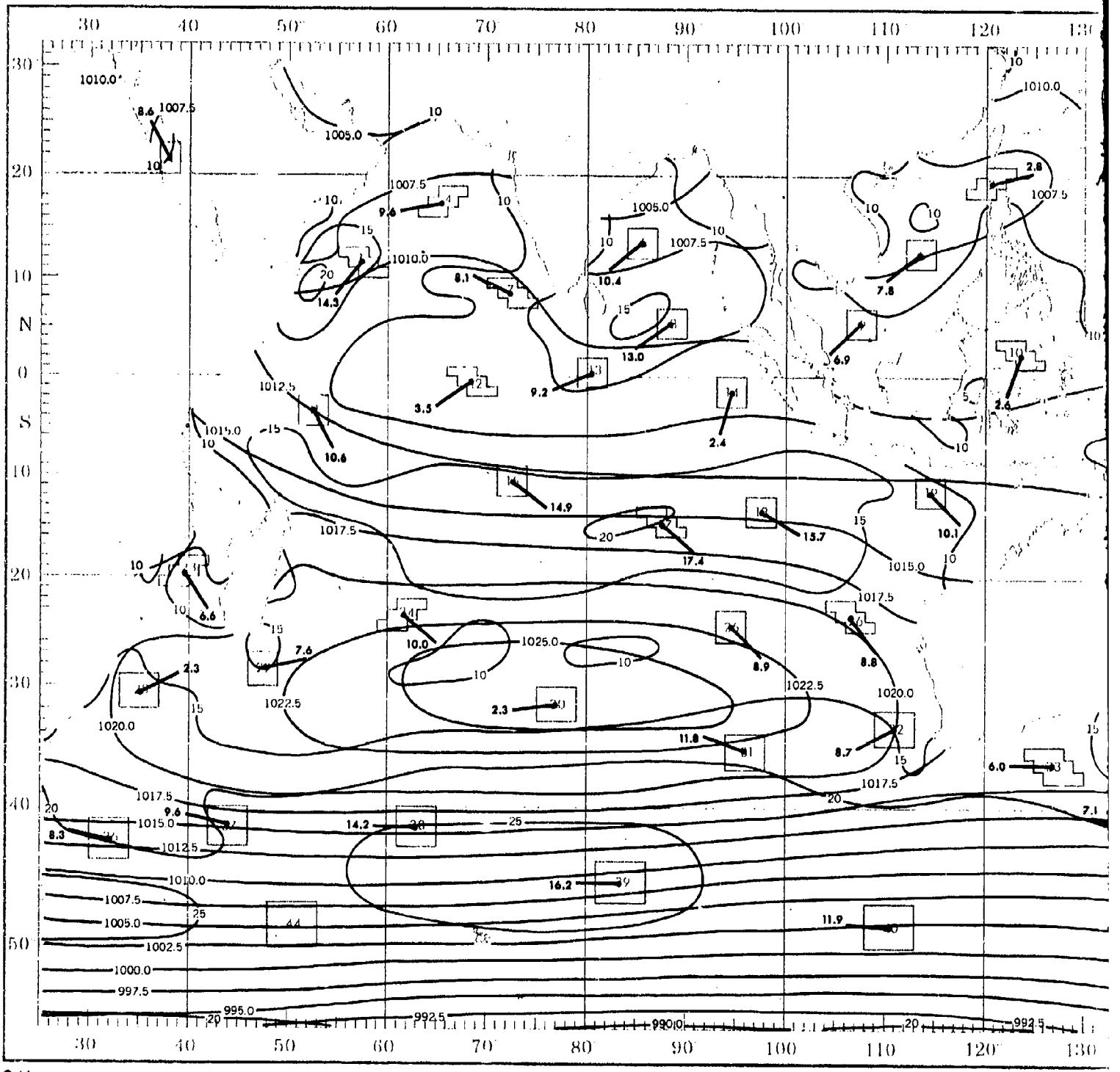
LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	2	2	0
<5 & OR <2	0	0	5	2	0
VSBY <2	0	0	6	2	0
<10 & OR <2	0	0	7	2	0
<20 & OR <5	0	2	21	18	0
VSBY ≥5	0	14	36	42	0
≥50 & ≥5	0	12	12	14	0
NC & ≥10	0	0	5	5	0

43

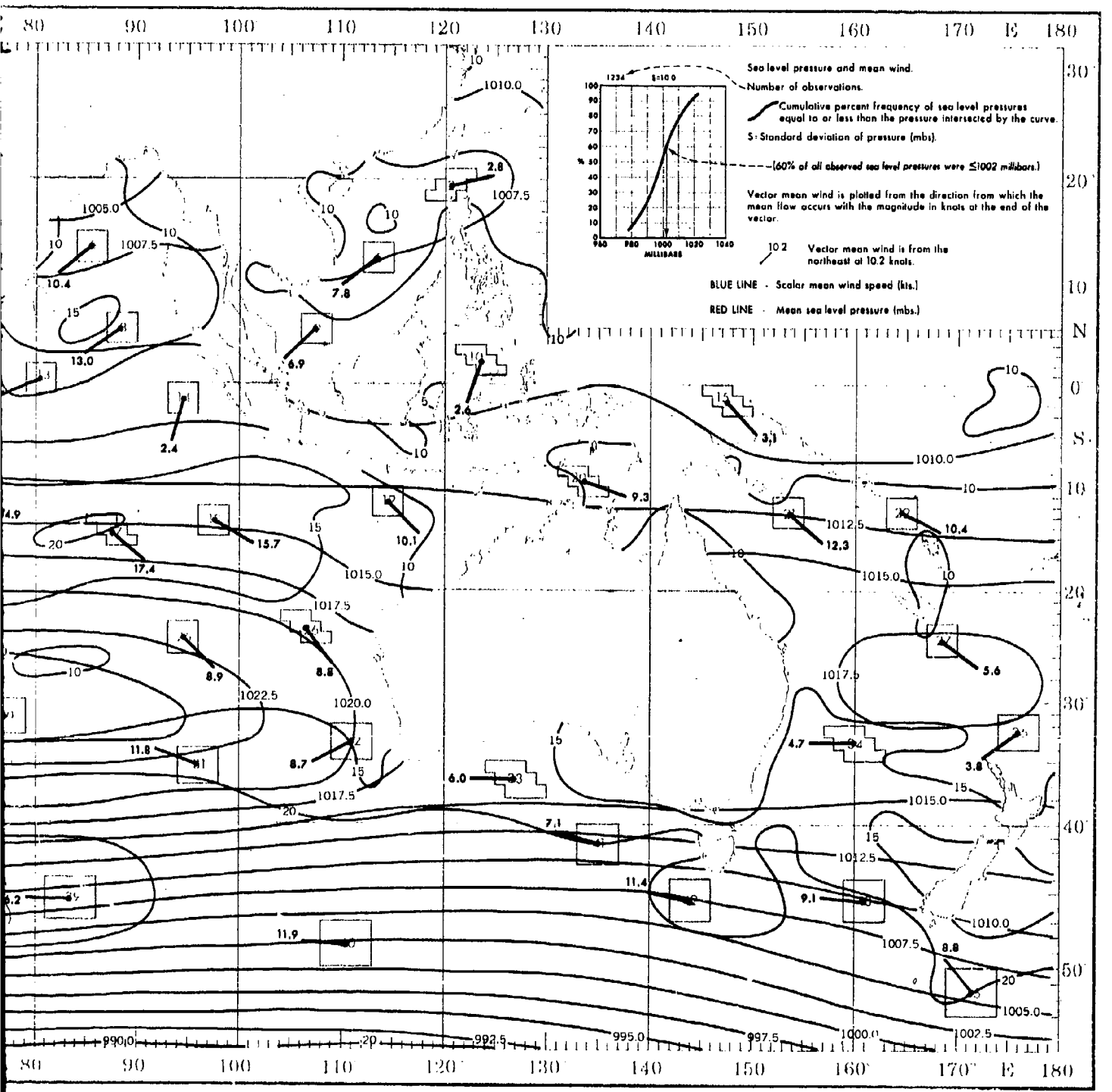
ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER

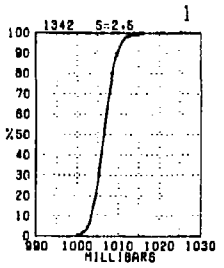
SEA LEVEL PR

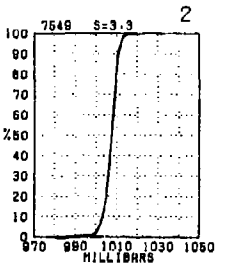


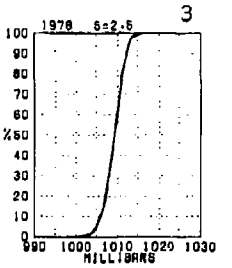
SEA LEVEL PRESSURE AND MEAN WIND

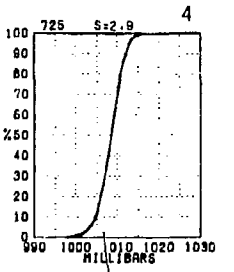


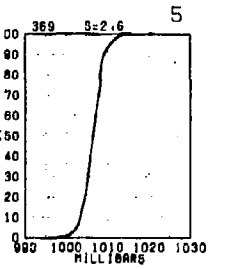
SEA LEVEL PRESSURE

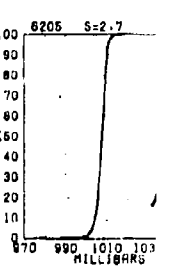


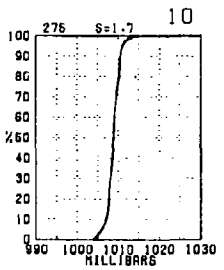


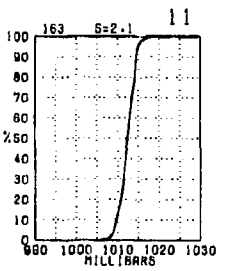


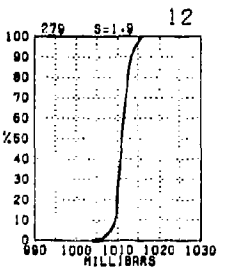


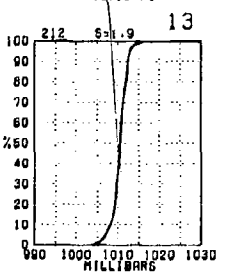


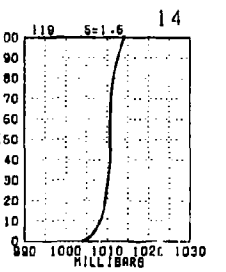


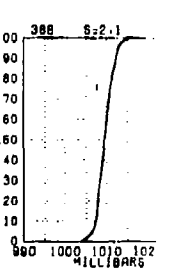


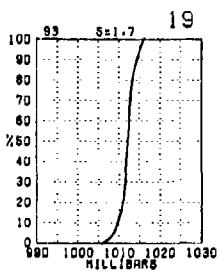


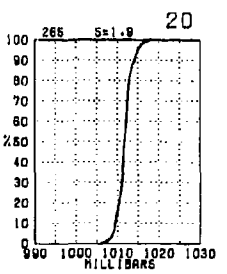


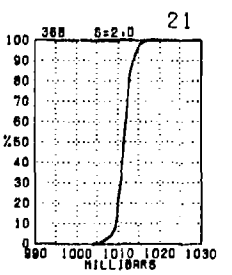


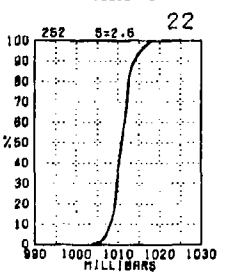


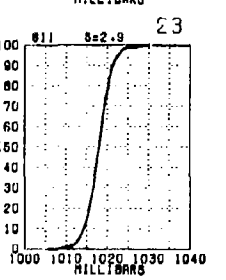


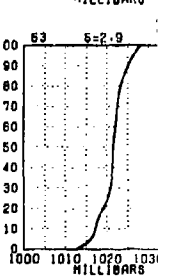


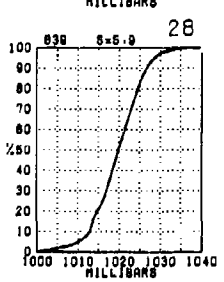


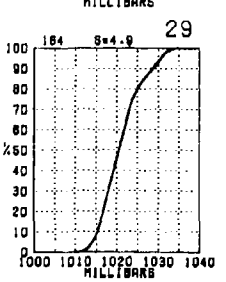


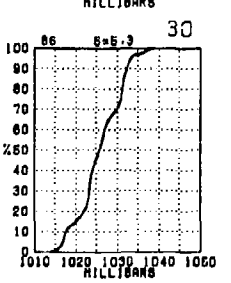


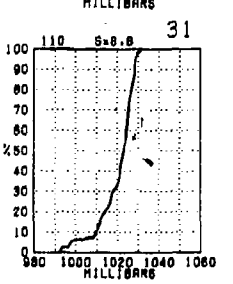


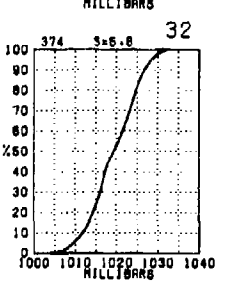


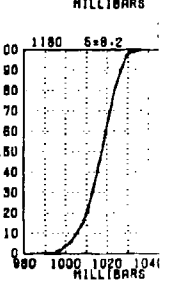


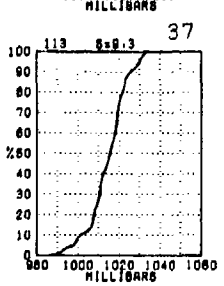


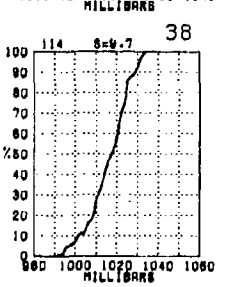


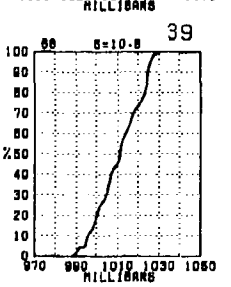






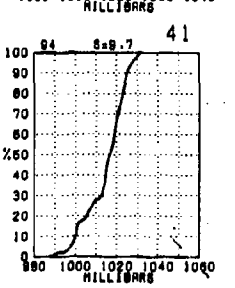






40

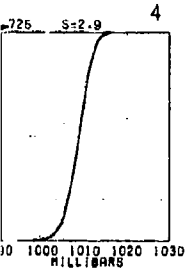
INSUFFICIENT DATA

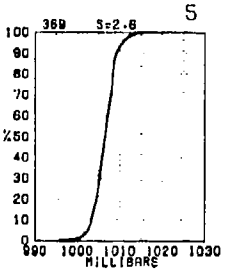


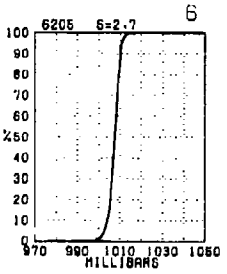
INSUFFICIEI DATA

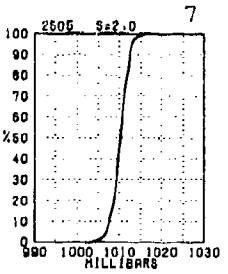
Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively ad

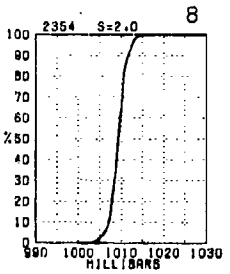
SEPTEMBER

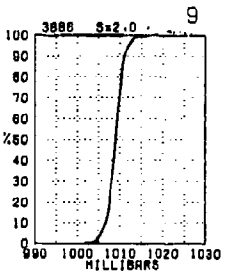


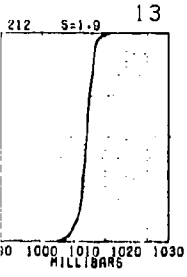


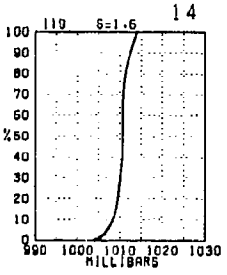


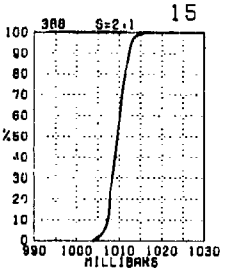


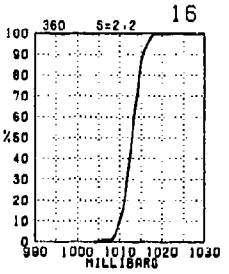


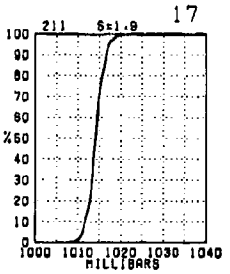


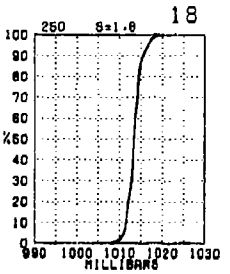


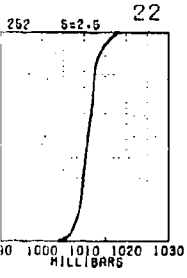


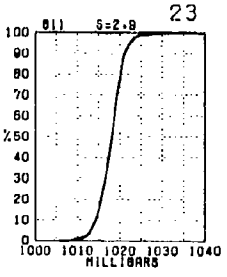


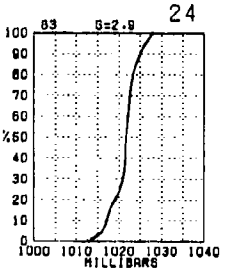


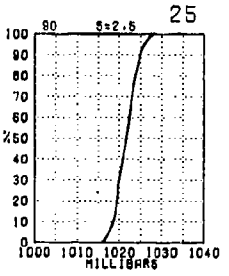


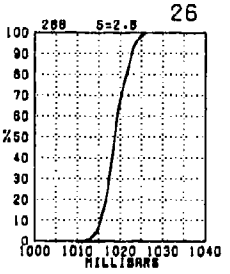


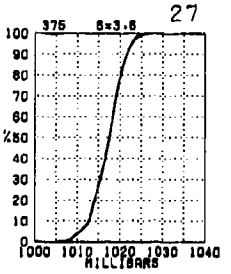


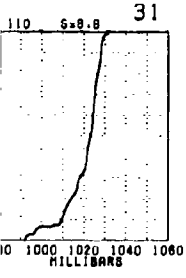


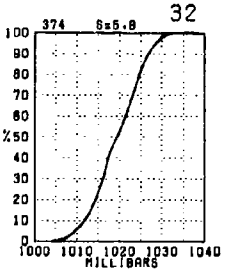


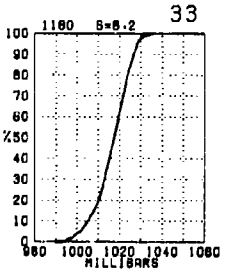


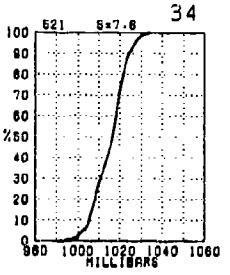


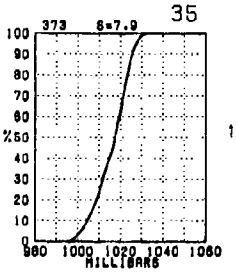


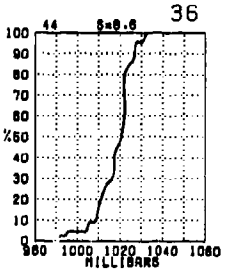






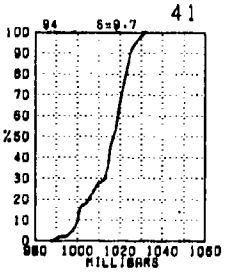






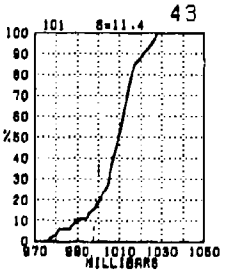
40

INSUFFICIENT DATA



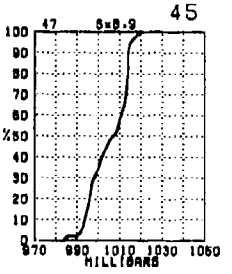
42

INSUFFICIENT DATA



44

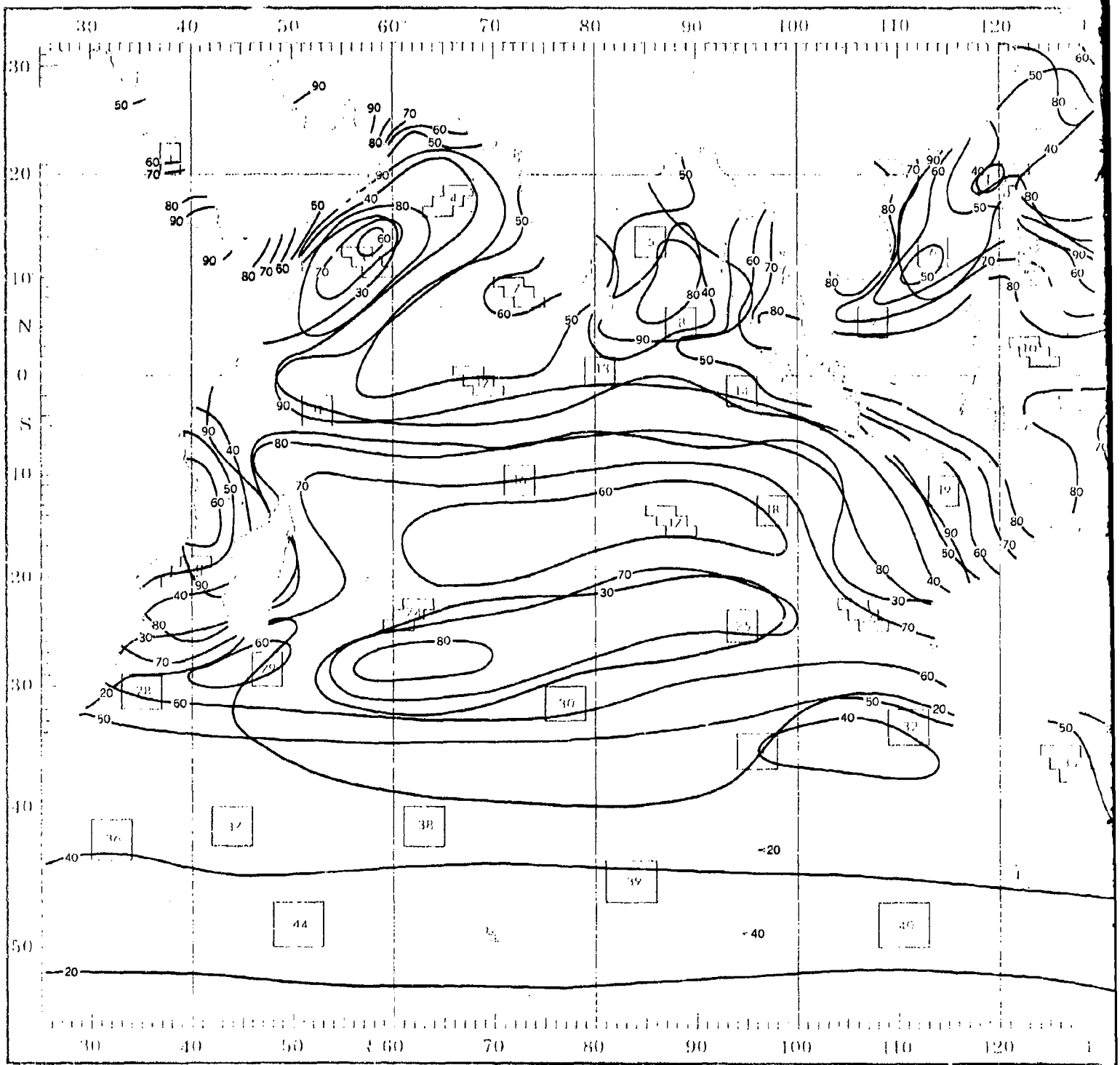
INSUFFICIENT DATA



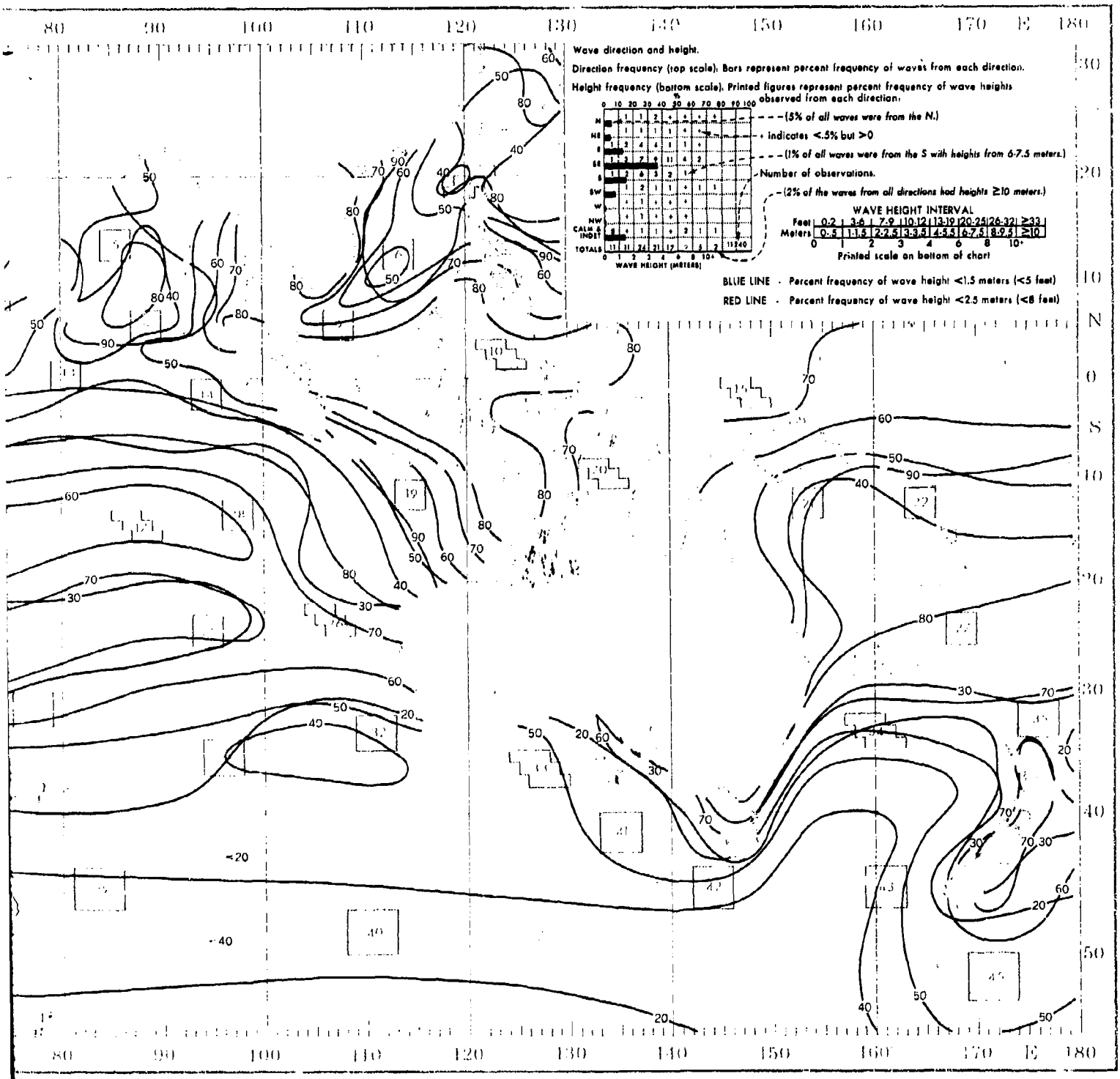
ve compilation of available data for specified areas without regard to suspected biases.
ite page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER

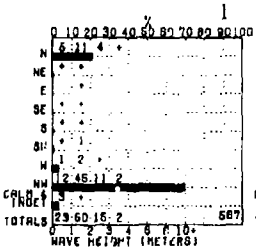
WAVE

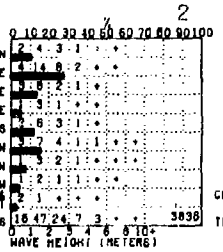


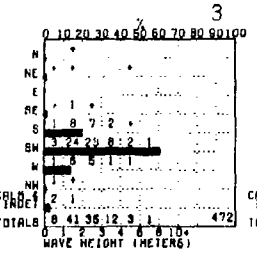
WAVES (<1.5 AND <2.5 METERS)

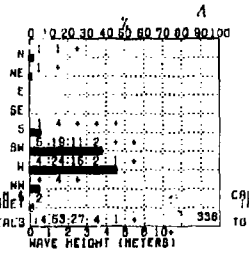


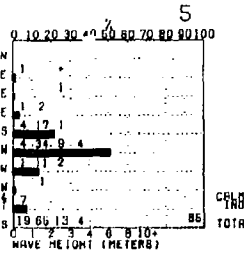
WAVE DIRECTION AND HEIGHT

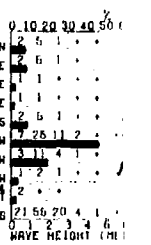


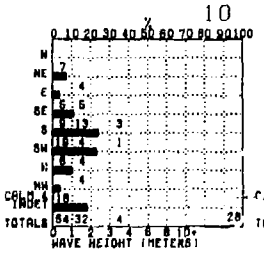


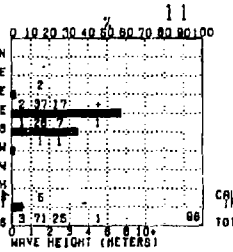


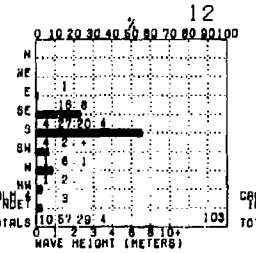


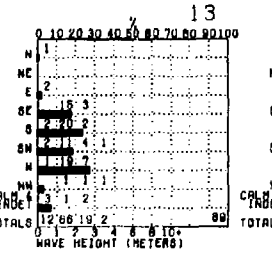


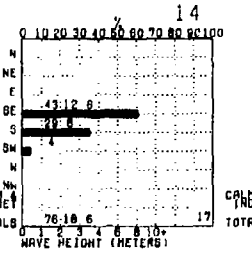


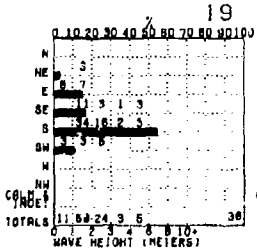


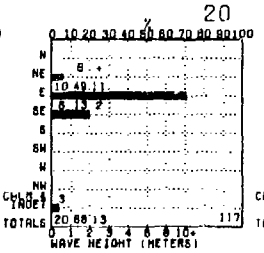


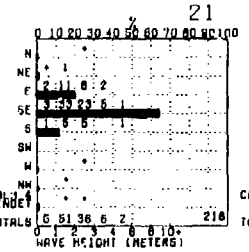


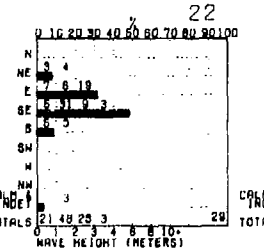


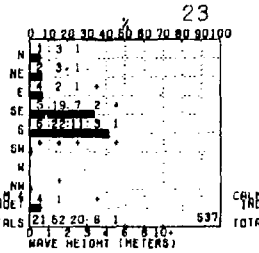


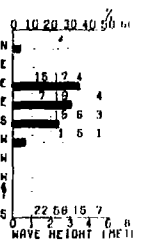


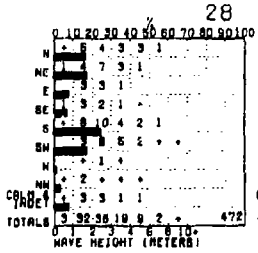


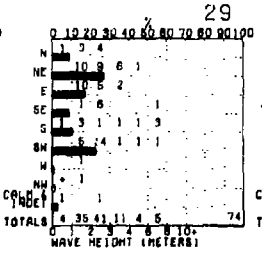


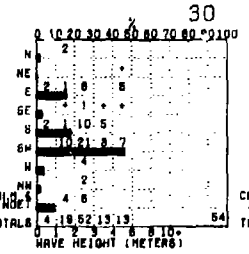


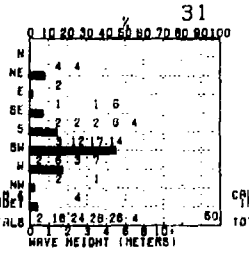


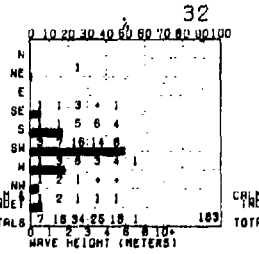


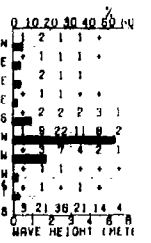










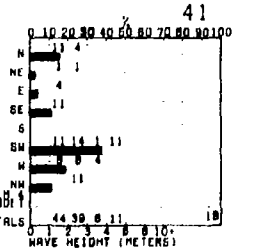


37 INSUFFICIENT DATA

38 INSUFFICIENT DATA

39 INSUFFICIENT DATA

40 INSUFFICIENT DATA

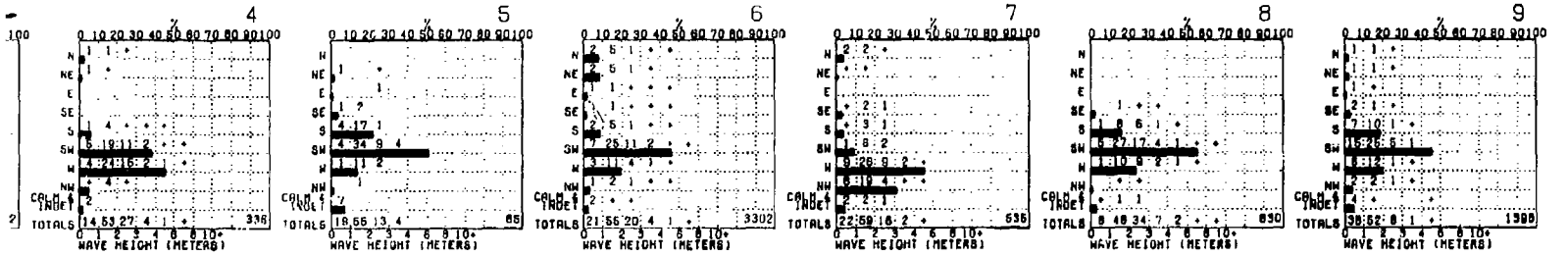


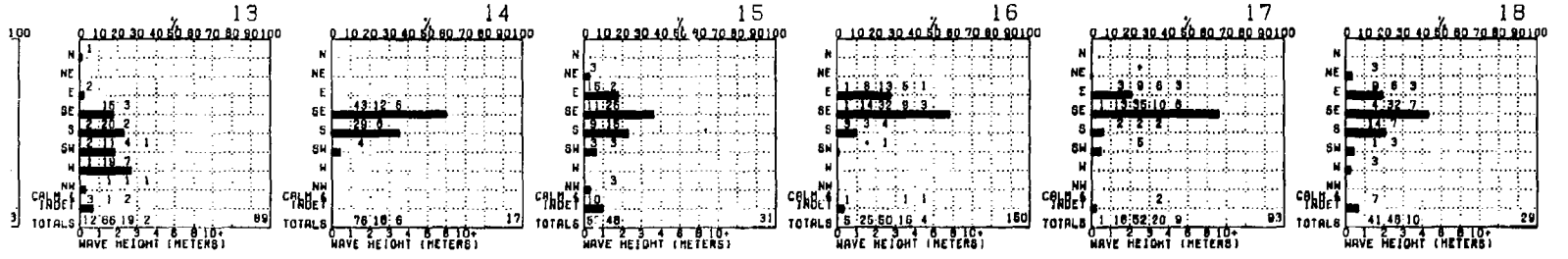
INSUFFICIE DATA

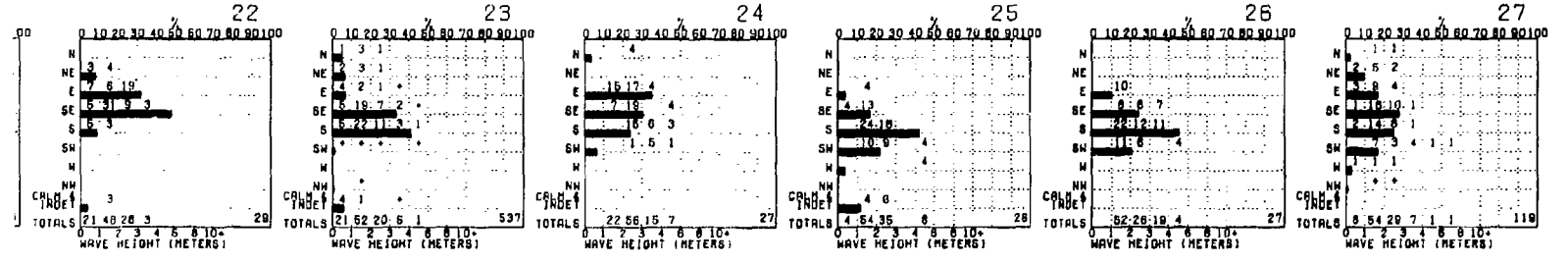
Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively a

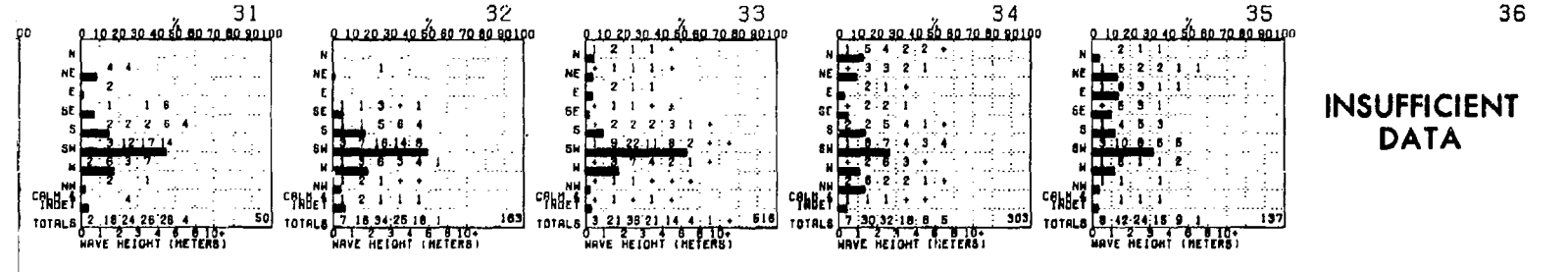
IGHT

SEPTEMBER



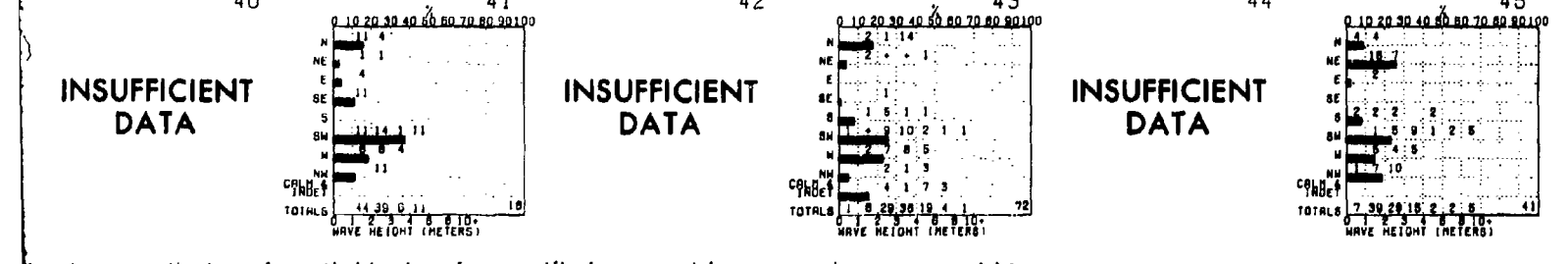






36

INSUFFICIENT DATA



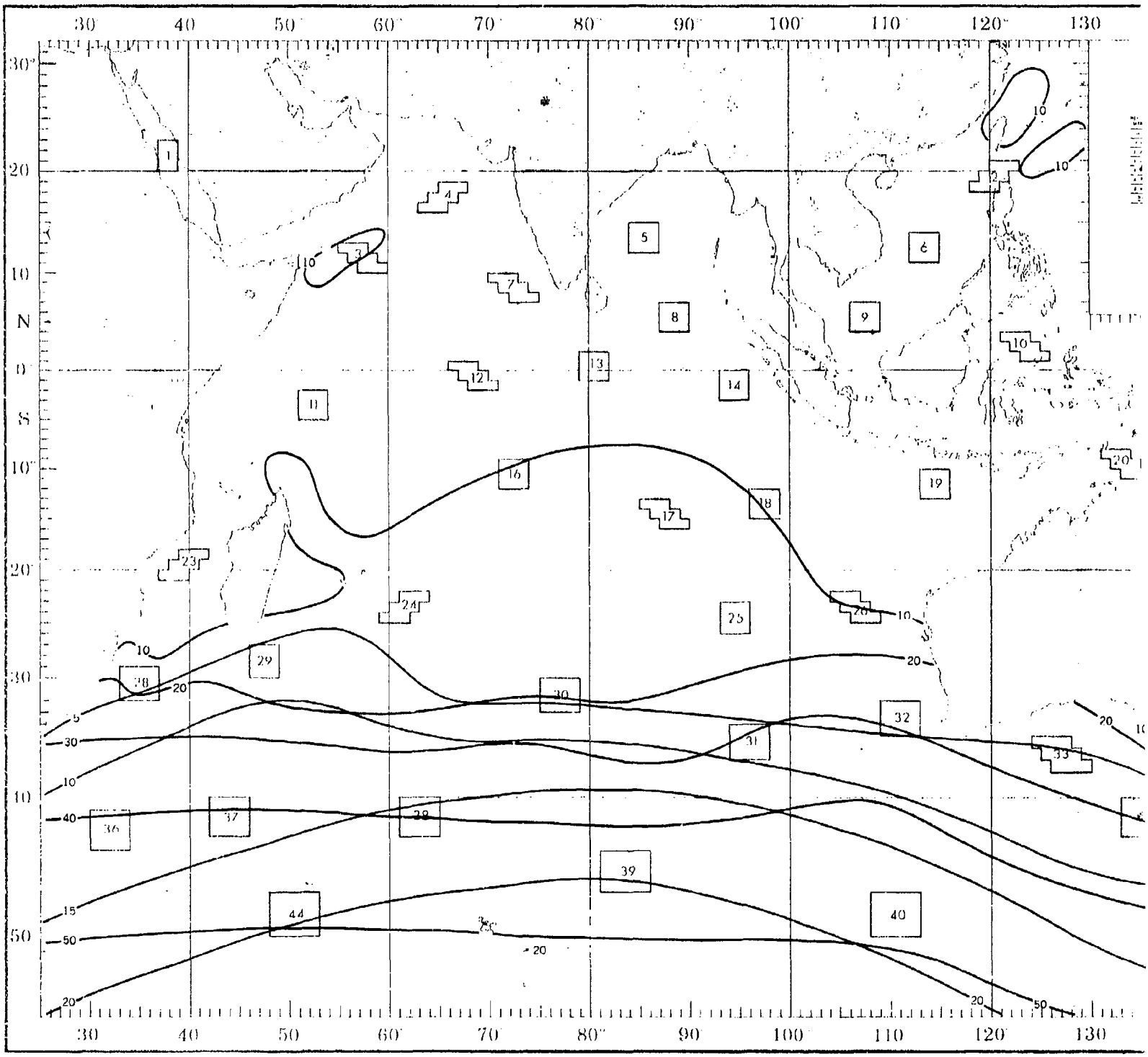
INSUFFICIENT DATA

INSUFFICIENT DATA

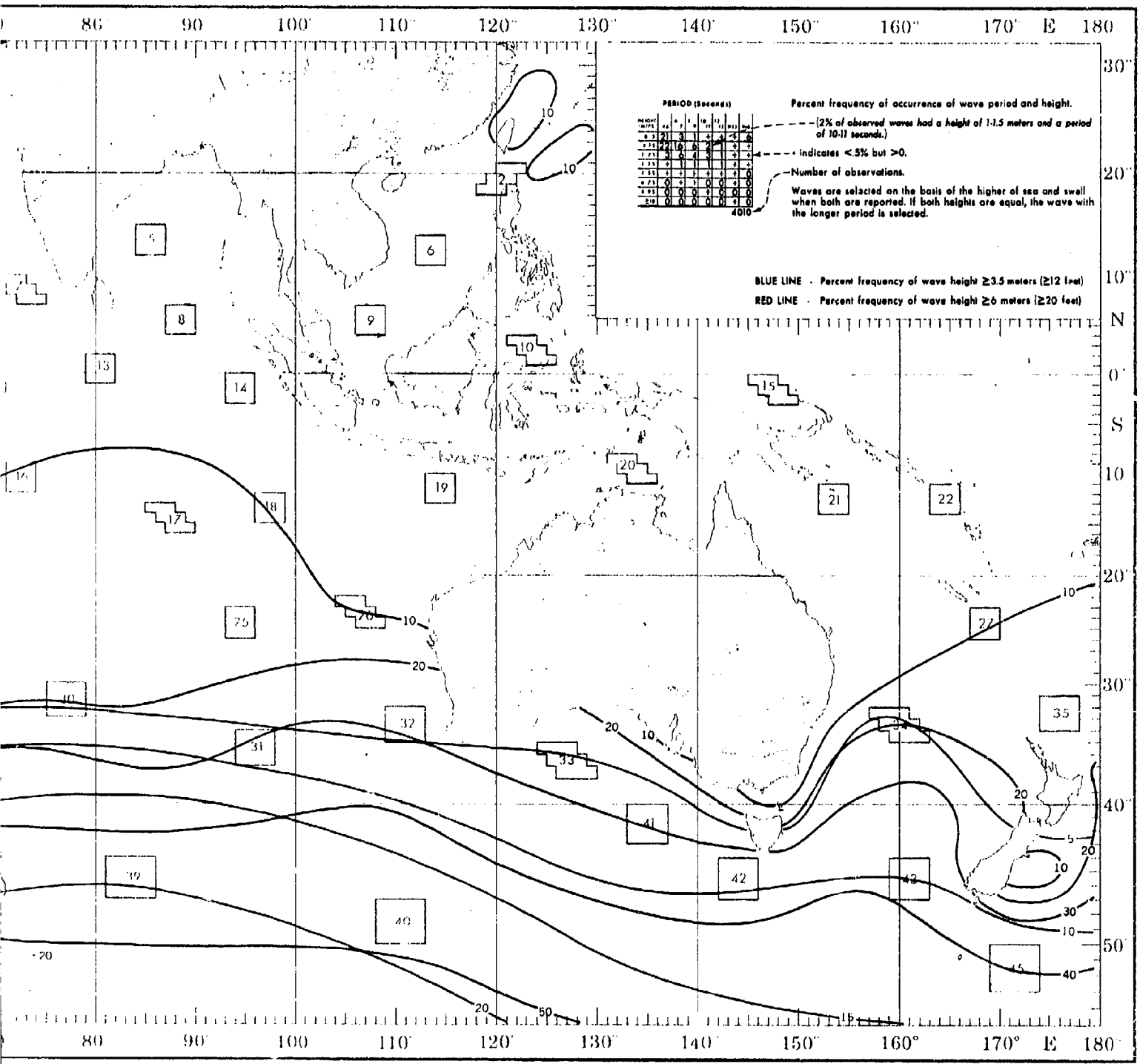
INSUFFICIENT DATA

jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

SEPTEMBER WAVES



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	1	0	+	0	0	9
1-1.5	33	15	2	1	0	0	7
2-2.5	3	0	2	1	+	0	1
3-3.5	1	1	+	+	0	0	+
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

597

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	2	+	+	0	0	2
1-1.5	23	16	5	1	+	0	1
2-2.5	3	8	9	3	+	+	+
3-3.5	1	1	2	2	1	+	+
4-5.5	+	+	1	1	+	+	+
6-7.5	0	+	+	+	+	+	0
8-9.5	0	0	+	0	0	0	0
>10	0	0	0	0	0	0	0

3948

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	2	+	+	0	0	3
1-1.5	14	16	3	1	+	0	6
2-2.5	3	14	10	4	1	+	3
3-3.5	1	3	4	2	1	1	+
4-5.5	0	1	1	+	1	+	0
6-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

477

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	1	1	1	0	0	4
1-1.5	20	19	8	2	1	+	2
2-2.5	2	11	8	4	+	0	+
3-3.5	+	1	1	1	0	0	+
4-5.5	+	+	+	+	0	0	0
6-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

348

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	11	2	0	0	0	0	7
1-1.5	31	17	6	2	5	0	2
2-2.5	3	3	5	0	0	0	1
3-3.5	0	1	0	2	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

87

14

INSUFFICIENT DATA

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	19	1	+	+	0		
1-1.5	26	20	5	1	+		
2-2.5	3	7	7	2	+		
3-3.5	+	2	1	+	+		
4-5.5	+	+	+	+	0		
6-7.5	0	0	+	0	0		
8-9.5	0	0	0	0	0		
>10	0	0	0	0	0		

3

10

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	47	0	0	0	0	0	20
1-1.5	17	13	0	0	0	0	0
2-2.5	0	0	0	0	0	0	0
3-3.5	0	3	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

30

11

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	28	23	10	4	0	0	5
2-2.5	2	11	6	1	0	1	+
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	1	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

97

12

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	7	0	0	4	0	0	1
1-1.5	9	18	11	9	4	0	6
2-2.5	0	7	6	14	0	0	2
3-3.5	0	0	3	1	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

135

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	1	0	0	3
1-1.5	16	18	17	8	4	1	2
2-2.5	0	7	3	7	1	0	1
3-3.5	0	0	2	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

89

INSUFFICIENT DATA

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	61	0	0	0	0	0
1-1.5	24	11	5	0	0	0
2-2.5	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0
>10	0	0	0	0	0	0

19

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	3	0	3	0	0	0
1-1.5	34	13	11	0	0	0	0
2-2.5	3	8	5	8	0	0	0
3-3.5	0	0	3	0	0	0	0
4-5.5	0	0	3	3	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

98

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	18	1	1	0	0	0	3
1-1.5	36	25	1	3	3	0	1
2-2.5	3	8	0	0	0	0	1
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

116

21

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	+	0	0	0	0	0
1-1.5	19	22	6	1	+	0	+
2-2.5	0	14	12	3	0	+	+
3-3.5	0	2	+	3	+	0	0
4-5.5	0	1	+	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

216

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	0	0	0	0	0	18
1-1.5	13	28	6	0	0	0	0
2-2.5	13	10	3	0	0	0	0
3-3.5	0	3	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

31

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	15	1	1	1	0	0	8
1-1.5	21	15	5	3	1	+	4
2-2.5	3	7	5	1	1	+	1
3-3.5	+	1	2	+	1	0	1
4-5.5	0	0	1	+	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

562

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	4	0	0	0	0	0
1-1.5	0	11	11	0	0	0
2-2.5	4	14	21	11	0	4
3-3.5	0	0	4	7	0	4
4-5.5	0	0	7	0	0	0
6-7.5	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0
>10	0	0	0	0	0	0

28

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	3	+	0	0	0	0	+
1-1.5	10	9	5	1	1	+	5
2-2.5	4	14	8	3	1	0	5
3-3.5	1	5	5	2	2	2	2
4-5.5	1	1	4	2	1	0	1
6-7.5	0	+	+	+	0	+	+
8-9.5	0	0	+	0	0	0	0
>10	0	0	0	0	0	0	0

476

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	1
1-1.5	11	13	8	3	0	0	0
2-2.5	4	13	11	7	3	0	3
3-3.5	0	3	3	4	1	0	0
4-5.5	0	3	0	0	1	0	0
6-7.5	0	0	1	1	3	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

76

30

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	8	8	2	2	0	0	4
2-2.5	8	7	13	8	6	4	11
3-3.5	0	4	4	2	0	4	0
4-5.5	0	2	6	2	2	0	2
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

64

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	4	4	4	0	8	0	0
2-2.5	4	2	6	4	2	0	6
3-3.5	0	4	4	8	6	0	4
4-5.5	0	2	8	8	4	8	0
6-7.5	0	0	0	4	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

81

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	0	0	0	1
1-1.5	4	3	2	2	1	1	3
2-2.5	1	8	5	9	4	5	3
3-3.5	0	2	9	4	4	4	1
4-5.5	1	0	7	7	1	1	1
6-7.5	0	0	0	1	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

163

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	2	0	0	0	0	0
1-1.5	7	7	4	2	+	0
2-2.5	1	6	14	10	3	+
3-3.5	+	3	7	6	2	1
4-5.5	0	2	4	4	3	1
6-7.5	0	1	1	1	1	+
8-9.5	0	+	+	0	0	+
>10	0	0	+	+	0	0

5

4

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	11	22	0	11	0	0	0
2-2.5	6	17	17	0	0	0	0
3-3.5	0	0	6	0	0	0	0
4-5.5	0	0	0	0	11	0	0
6-7.5	0	0	0	6	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

18

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

SEPTEMBER

4

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	1	1	1	0	0	4
1-1.5	20	19	8	2	1	+	2
2-2.5	2	11	8	4	+	0	+
3-3.5	+	1	1	1	0	0	+
4-5.5	+	+	+	+	0	0	0
6-7.5	0	+	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

346

5

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	11	2	0	0	0	0	7
1-1.5	31	17	6	2	6	0	2
2-2.5	3	3	5	0	0	0	1
3-3.5	0	1	0	2	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

87

6

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	19	1	+	+	0	0	3
1-1.5	26	20	5	1	+	0	1
2-2.5	3	7	7	2	+	+	+
3-3.5	+	2	1	+	+	+	+
4-5.5	+	+	+	+	0	+	0
6-7.5	0	0	+	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

3424

7

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	14	2	+	1	0	0	7
1-1.5	16	26	6	1	1	0	7
2-2.5	2	7	2	2	1	0	1
3-3.5	1	1	+	0	0	0	0
4-5.5	+	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

552

8

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	1	+	+	0	0	1
1-1.5	15	19	8	2	1	+	5
2-2.5	4	12	10	4	1	+	3
3-3.5	1	2	2	2	1	+	+
4-5.5	+	1	+	+	+	0	0
6-7.5	0	0	+	0	0	+	0
8-9.5	0	0	0	0	0	+	0
>10	0	0	0	0	0	0	0

838

9

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	34	2	1	+	0	0	7
1-1.5	27	14	3	1	+	+	3
2-2.5	2	3	2	+	0	0	+
3-3.5	+	+	+	+	0	0	0
4-5.5	0	0	0	0	0	0	+
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1627

13

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	1	0	0	3
1-1.5	16	18	17	8	4	1	2
2-2.5	0	7	3	7	1	0	1
3-3.5	0	0	2	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

89

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	51	0	0	0	0	0	6
1-1.5	24	11	5	0	0	0	0
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

37

16

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	5
1-1.5	4	8	7	0	0	0	5
2-2.5	1	13	22	11	1	1	1
3-3.5	0	3	7	3	1	0	2
4-5.5	0	0	3	0	1	0	1
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

150

17

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	1
1-1.5	8	2	5	1	0	0	2
2-2.5	5	13	17	4	6	0	5
3-3.5	0	2	5	8	2	0	3
4-5.5	1	3	2	0	1	0	1
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

93

18

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	17	10	0	0	0	0	14
2-2.5	7	10	17	10	3	0	0
3-3.5	0	3	7	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

29

22

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	10	0	0	0	0	0	16
1-1.5	13	26	6	0	0	0	0
2-2.5	13	10	3	0	0	0	3
3-3.5	0	3	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

31

23

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	15	1	1	1	0	0	6
1-1.5	21	15	5	3	1	+	4
2-2.5	3	7	6	1	1	+	1
3-3.5	+	1	2	+	1	0	1
4-5.5	0	0	1	+	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

562

24

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	0	11	11	0	0	0	0
2-2.5	4	14	21	11	0	4	0
3-3.5	0	0	4	7	0	4	0
4-5.5	0	0	1	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

28

25

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	4
1-1.5	11	19	7	4	7	0	4
2-2.5	0	7	7	7	4	0	7
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	4	4	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

27

26

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	11	22	18	0	0	0	0
2-2.5	11	7	7	0	0	0	0
3-3.5	0	15	4	0	0	0	0
4-5.5	0	0	4	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

27

27

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	7	1	0	2	0	0	2
2-2.5	20	20	8	1	2	0	2
3-3.5	3	7	6	5	2	0	4
4-5.5	1	1	3	2	0	0	0
6-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	1	0	0	0
>10	0	0	0	0	0	0	0

122

31

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	0	0	0	0	0	0
1-1.5	4	4	4	0	0	0	0
2-2.5	4	2	8	4	2	0	5
3-3.5	0	4	4	0	0	0	4
4-5.5	0	2	6	8	4	6	0
6-7.5	0	0	0	4	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

61

32

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	0	0	0	1
1-1.5	4	3	2	2	1	1	3
2-2.5	1	6	5	9	4	5	3
3-3.5	0	2	8	1	4	4	1
4-5.5	1	0	7	2	1	1	1
6-7.5	0	0	0	1	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

183

33

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	2	0	0	0	0	0	2
1-1.5	7	7	4	2	+	0	1
2-2.5	1	8	14	10	3	+	1
3-3.5	+	3	7	5	2	1	1
4-5.5	0	2	4	4	3	1	+
6-7.5	0	1	1	1	1	1	+
8-9.5	0	+	+	0	0	+	0
>10	0	0	+	+	0	0	0

523

34

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	1	0	0	0	0	1
1-1.5	11	12	5	1	0	+	1
2-2.5	5	10	11	4	1	1	+
3-3.5	1	5	8	2	1	+	0
4-5.5	1	3	2	1	0	0	1
6-7.5	0	1	2	2	+	+	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

306

35

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	1	1	0	0	0	1
1-1.5	20	8	8	0	0	1	6
2-2.5	8	7	6	3	0	0	1
3-3.5	3	3	7	1	0	0	1
4-5.5	0	1	4	1	1	0	0
6-7.5	0	0	1	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

139

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1-1.5	11	22	0	11	0	0	0
2-2.5	8	17	17	0	0	0	0
3-3.5	0	0	6	7	0	0	0
4-5.5	0	0	0	0	11	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

18

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	0
1-1.5	4	3	1	0	0	0	0
2-2.5	4	11	4	7	3	0	0
3-3.5	0	7	15	13	1	0	0
4-5.5	0	6	1	3	4	0	6
6-7.5	0	1	3	0	0	0	3
8-9.5	0	0	0	0	1	0	0
>10	0	0	0	0	0	0	0

72

44

INSUFFICIENT DATA

45

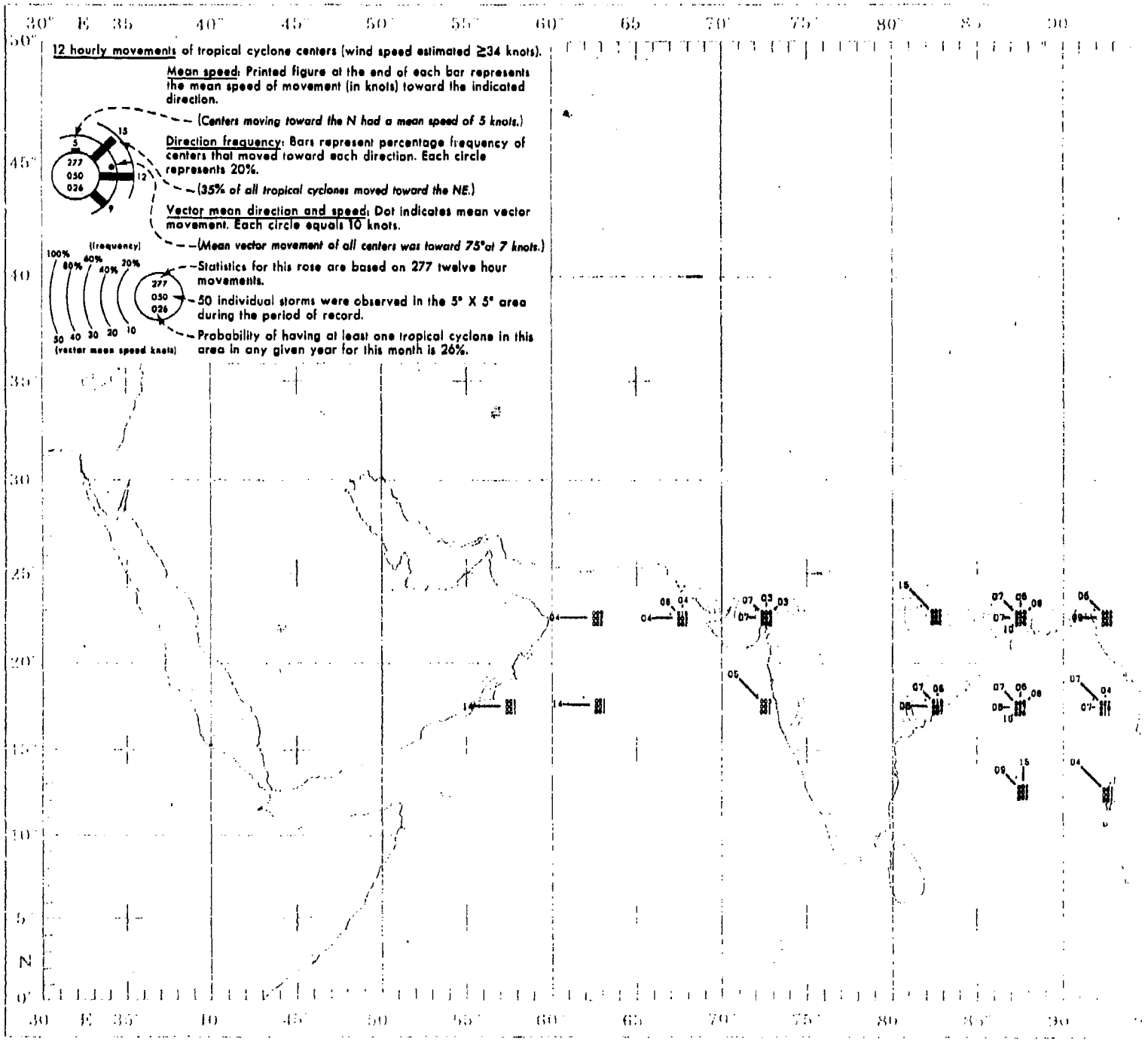
PERIOD (SECONDS)

HEIGHT (FEET)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	2	0	0	0	0	0
1-1.5	5	15	17	2	0	0	0
2-2.5	10	5	10	5	0	0	0
3-3.5	0	0	7	7	0	0	0
4-5.5	0	2	0	0	0	0	0
6-7.5	0	0	2	0	0	0	0
8-9.5	0	0	5	0	0	0	0
>10	0	0	0	0	0	0	0

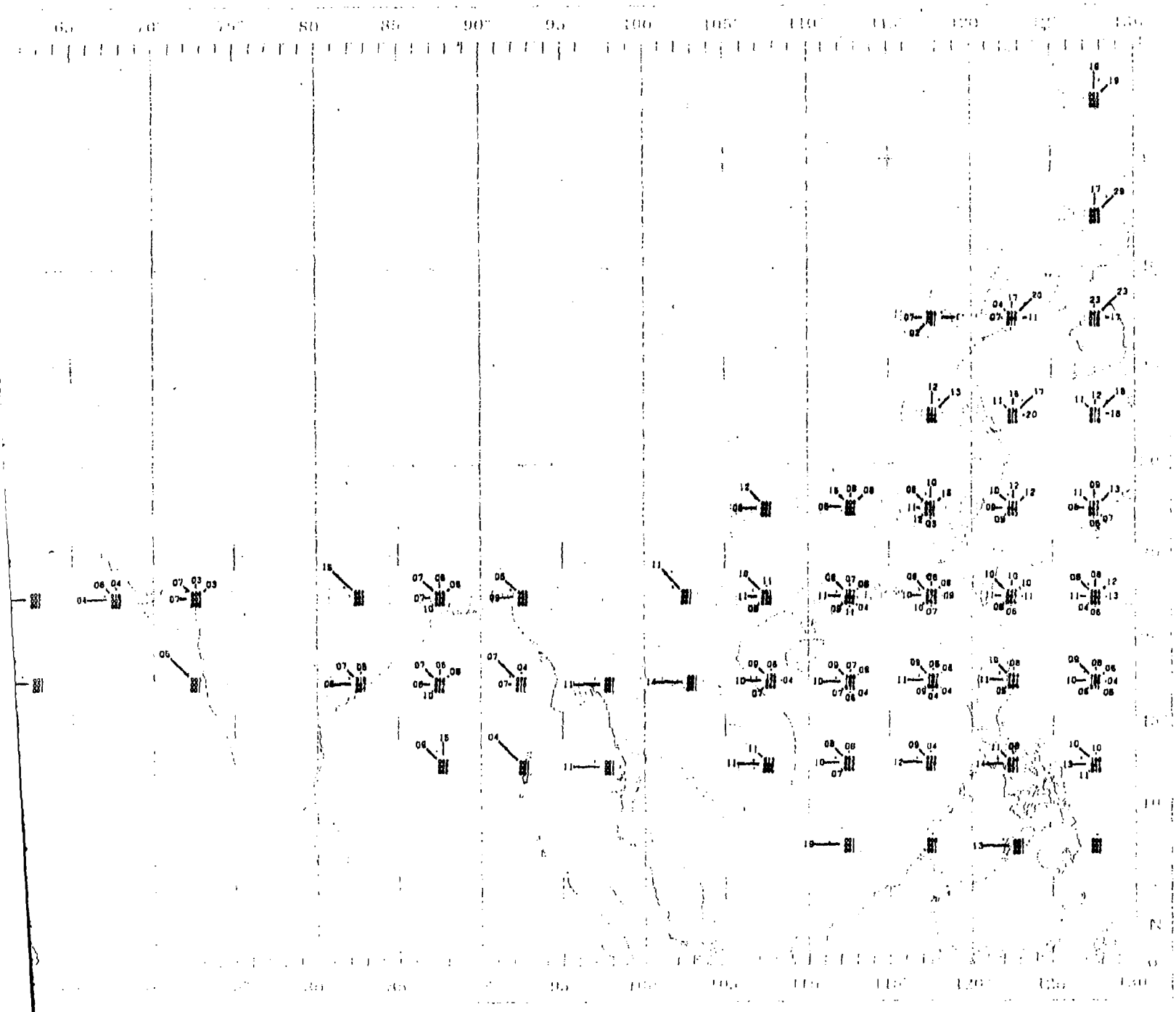
41

ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

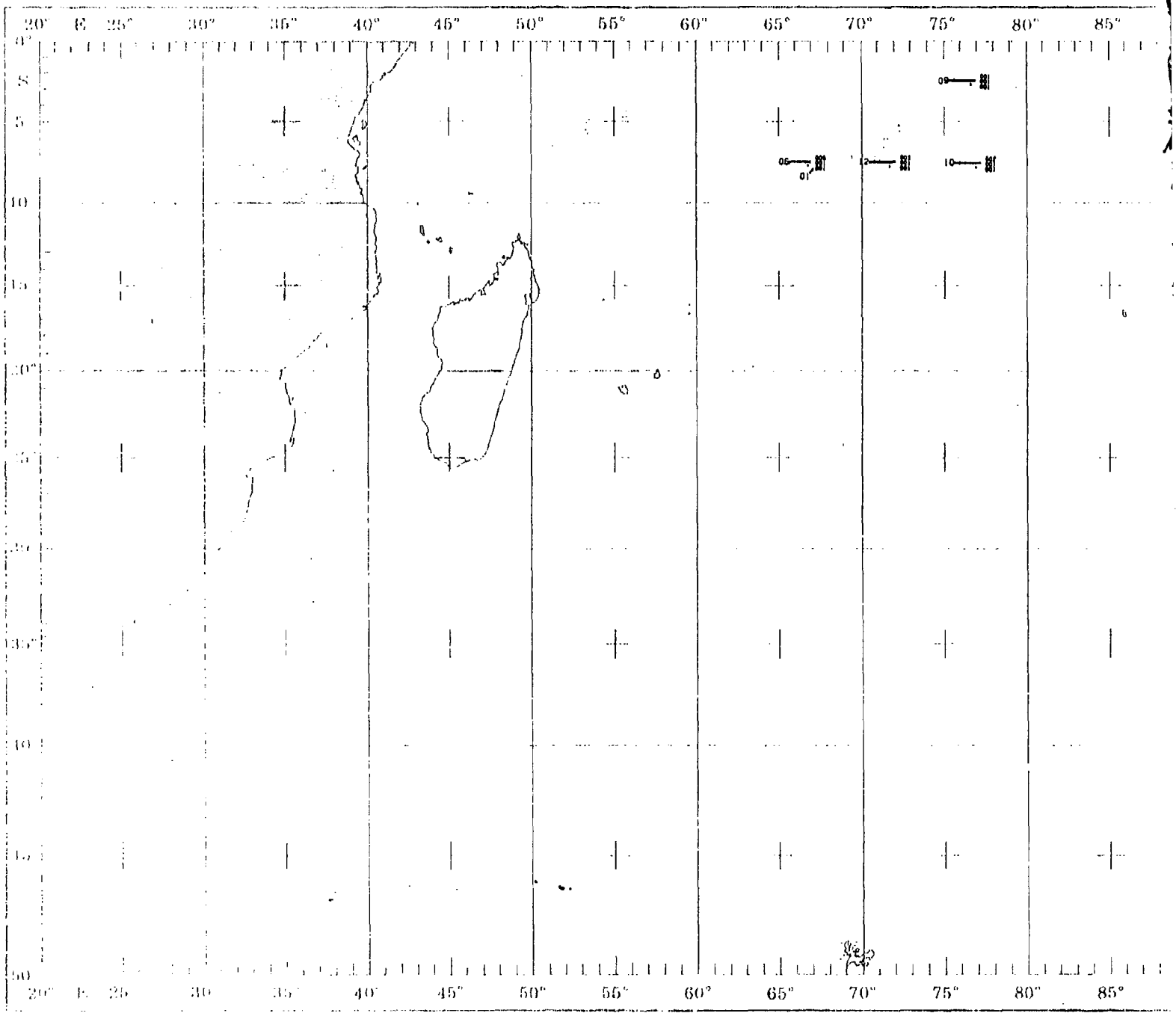
SEPTEMBER


12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.
(Mean vector movement of all centers was toward 75° at 7 knots.)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.
(frequency)
100% 80% 60% 40% 20%
277
050
026
50 40 30 20 10
(vector mean speed knots)
30° E 35 40 45 50 55 60 65 70 75 80 85 90
50°
45°
40
35
30
25
20
15
10
5
N
0°

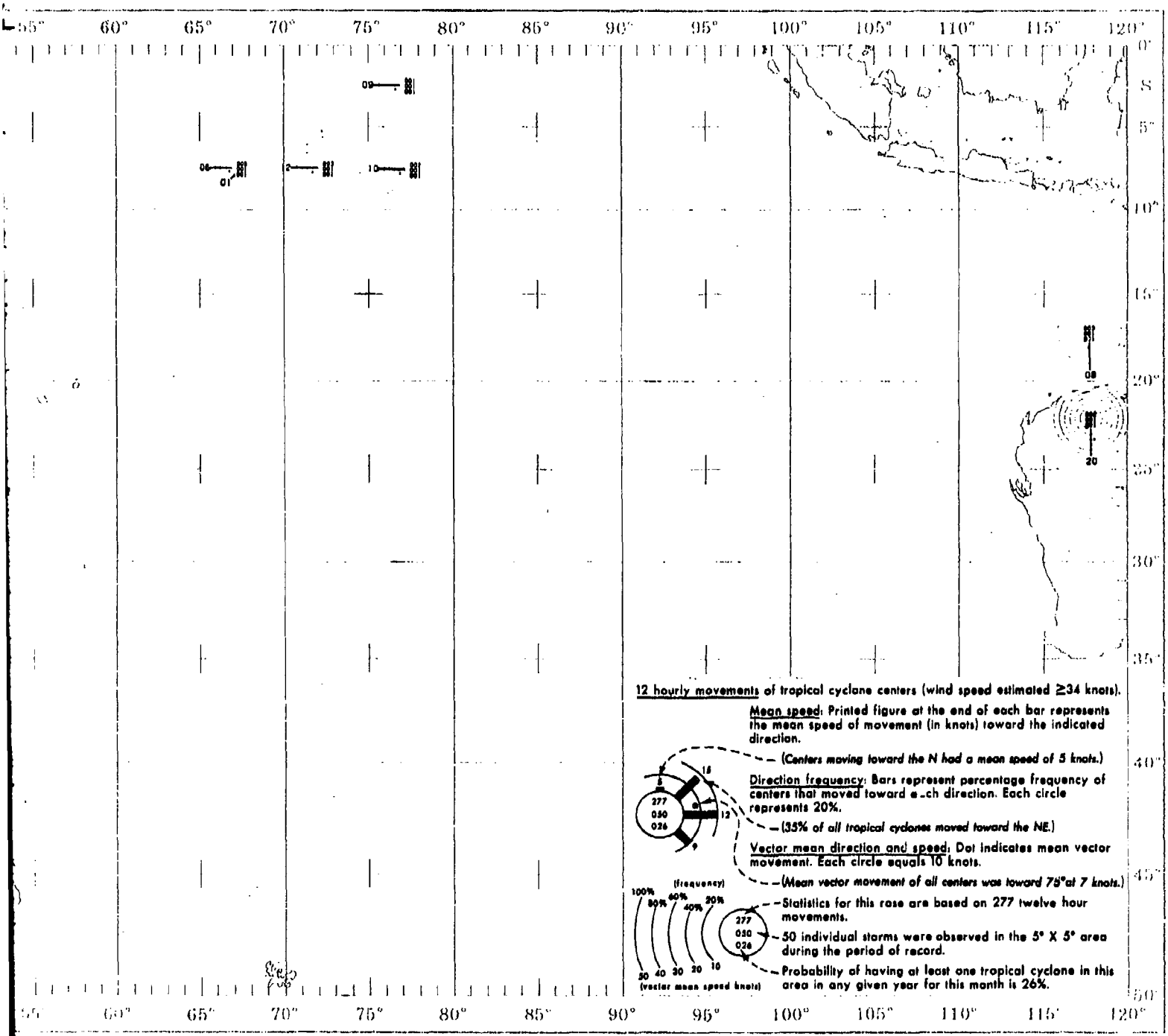
TROPICAL CYCLONE



TROPICAL CYCLONE



SEPTEMBER


55° 60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0° S 5° 10° 15° 20° 25° 30° 35° 40° 45° 50°
09
06
01
2
10
09
20
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
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277
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(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)
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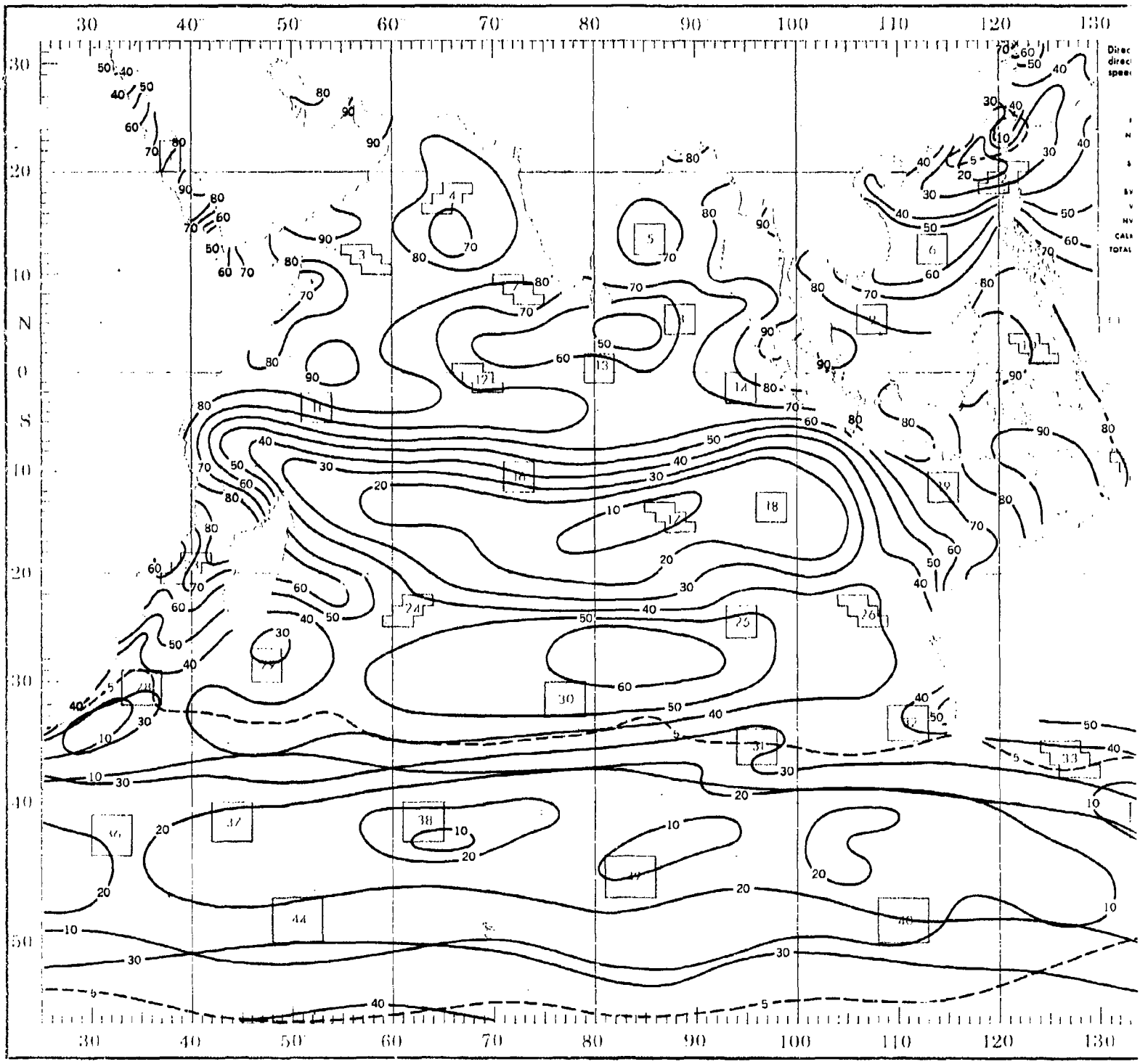
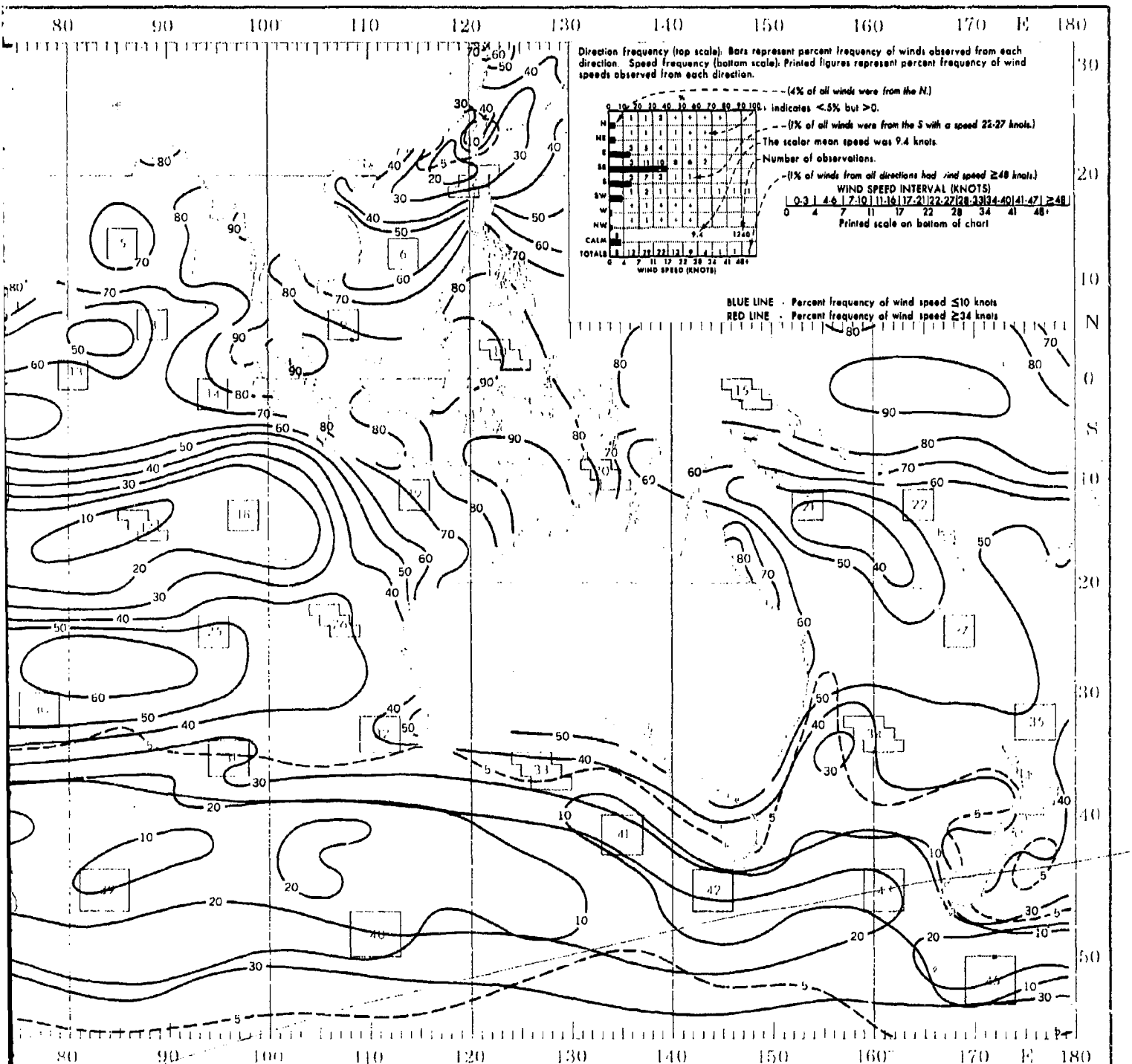
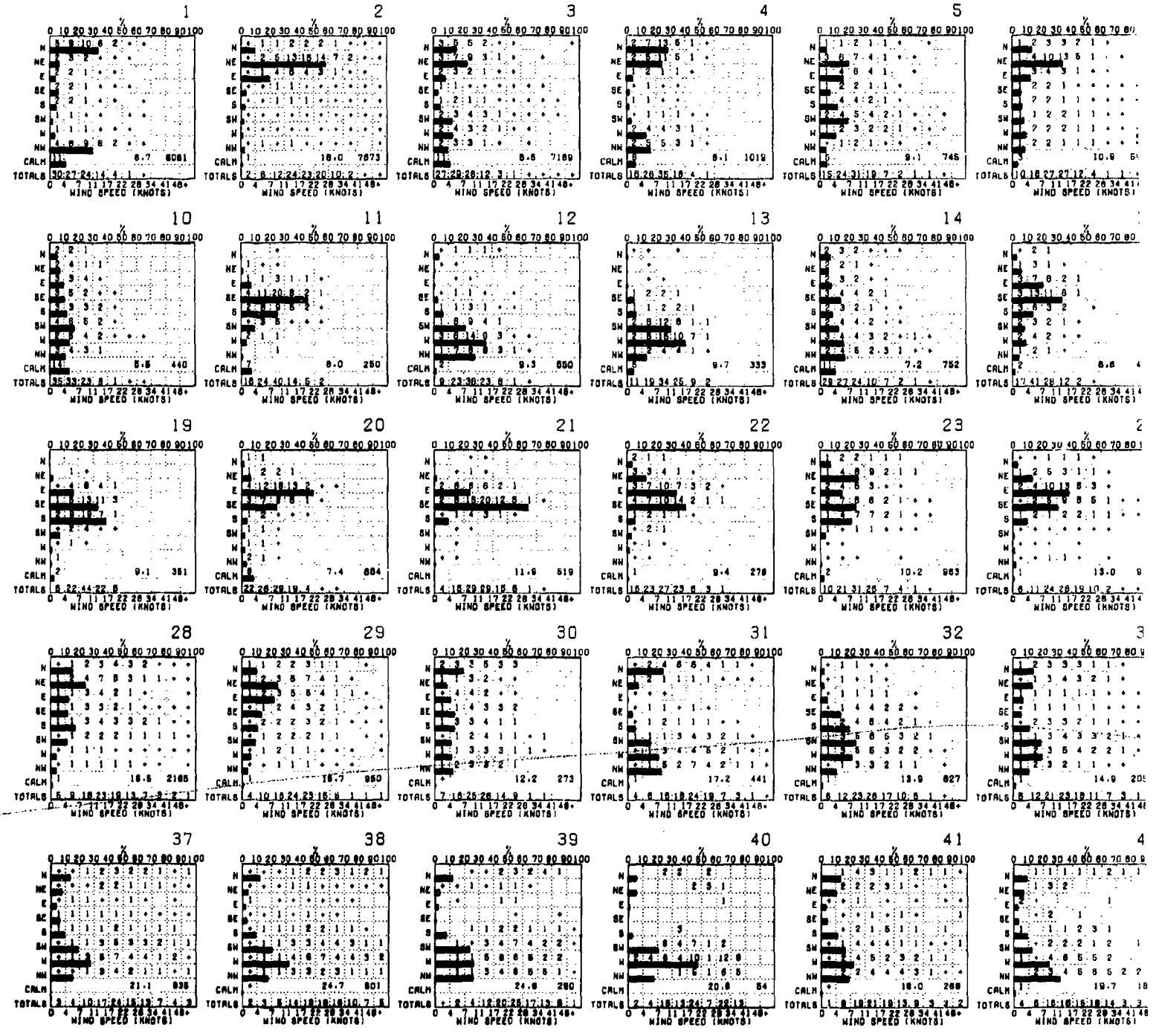
OCTOBER



SURFACE WINDS

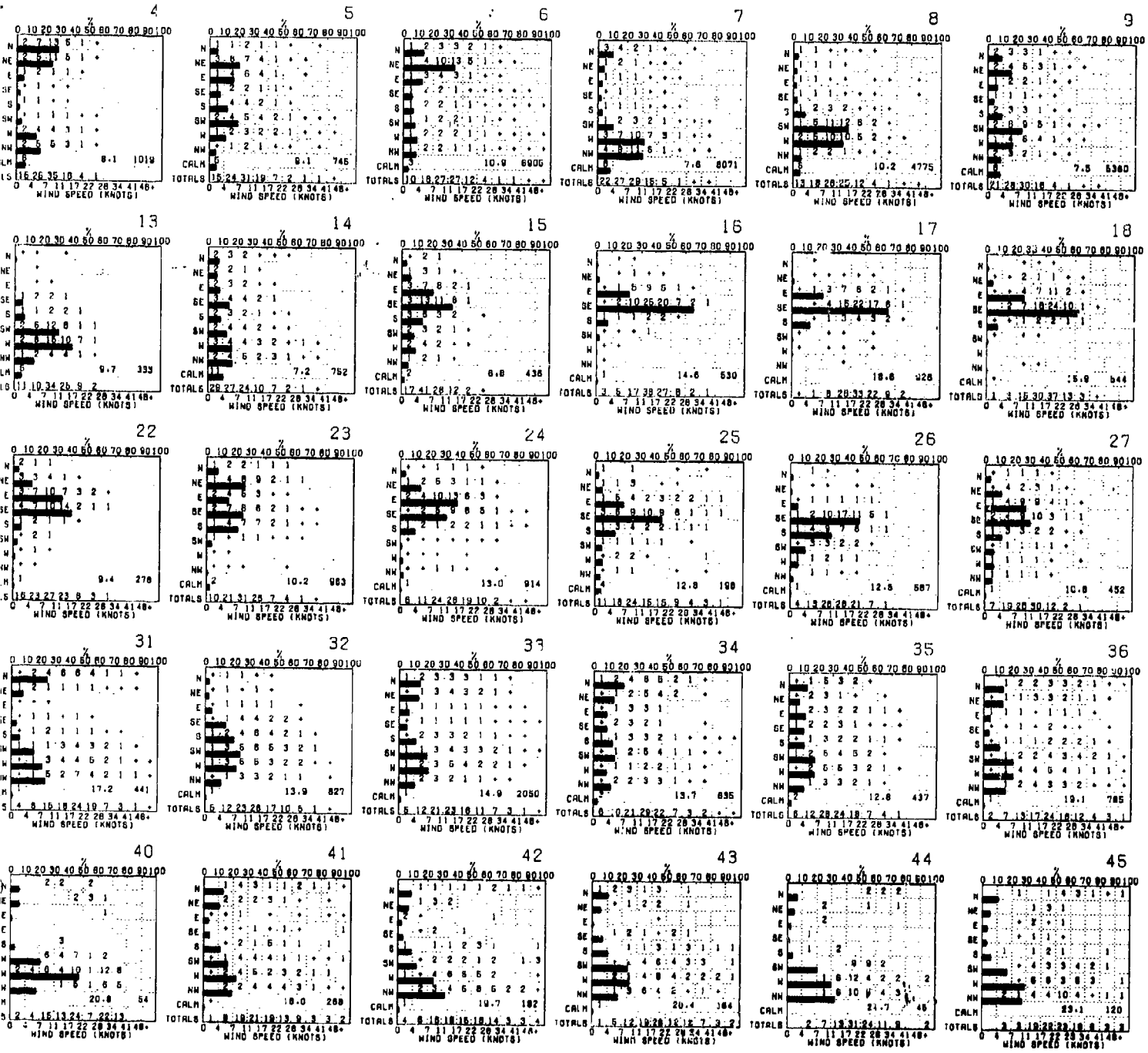


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

OCTOBER



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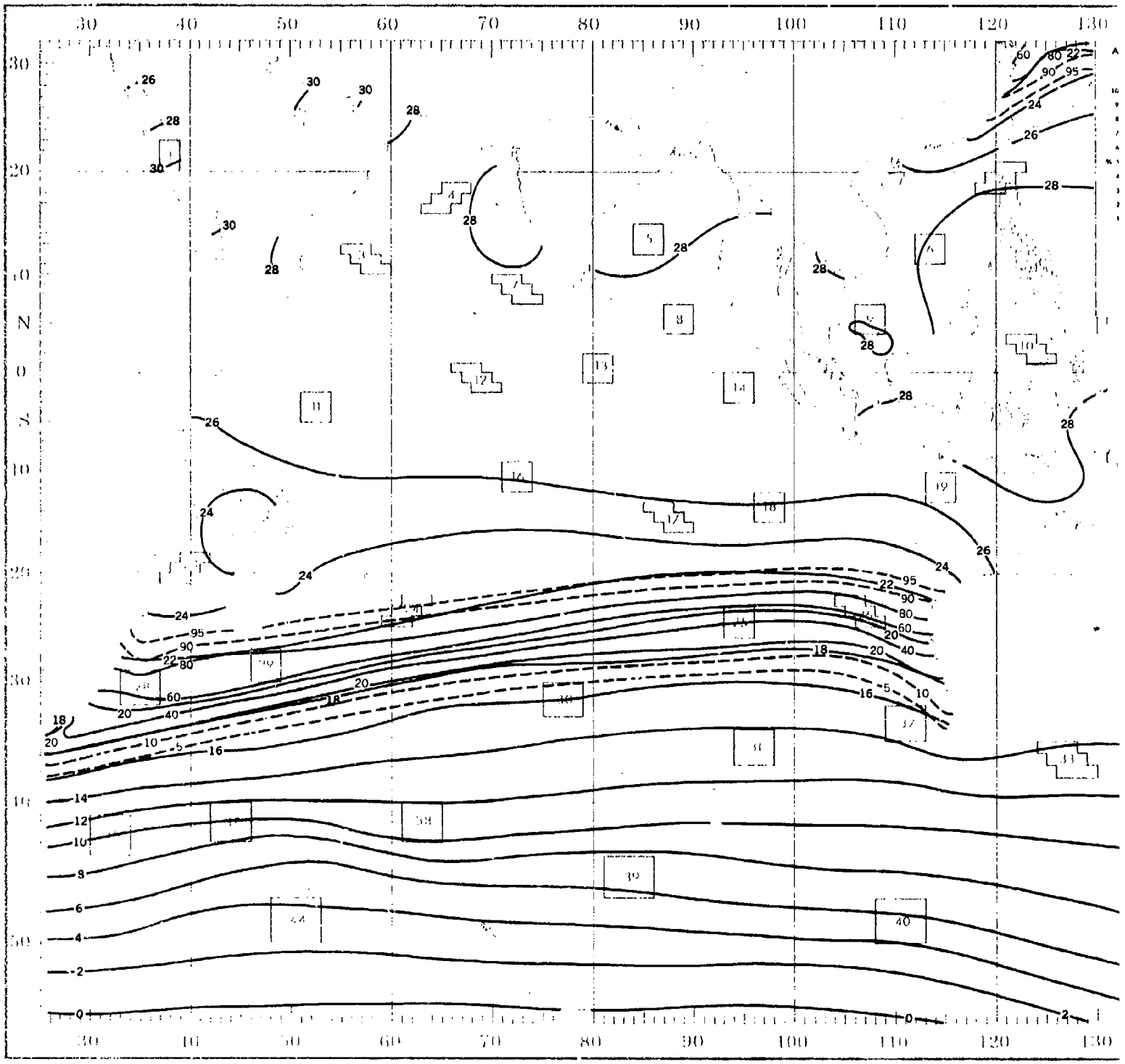
OCTOBER


30
40
50
60
70
80
90
100
110
120
130
30
20
10
0
N
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S
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50
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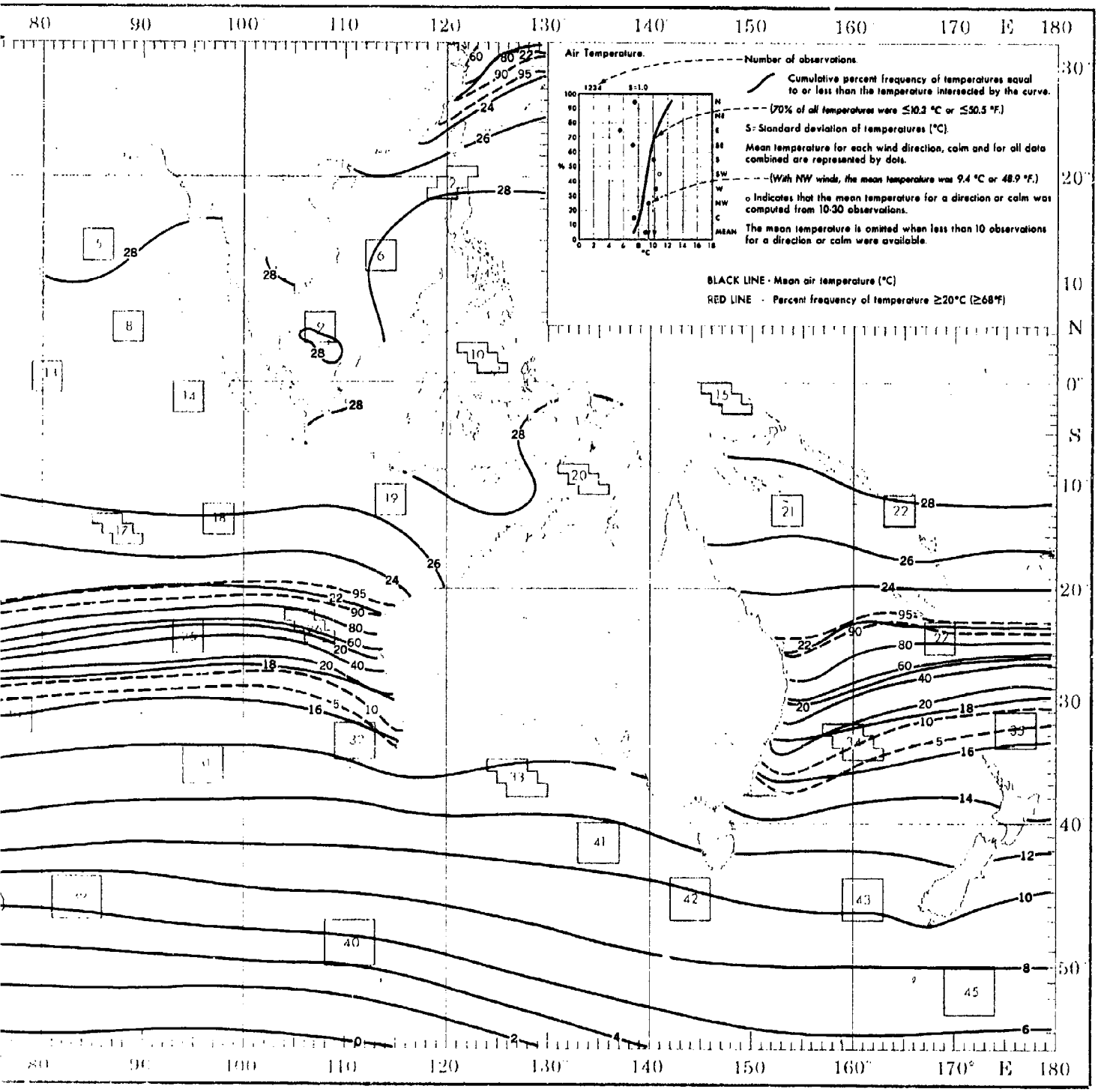
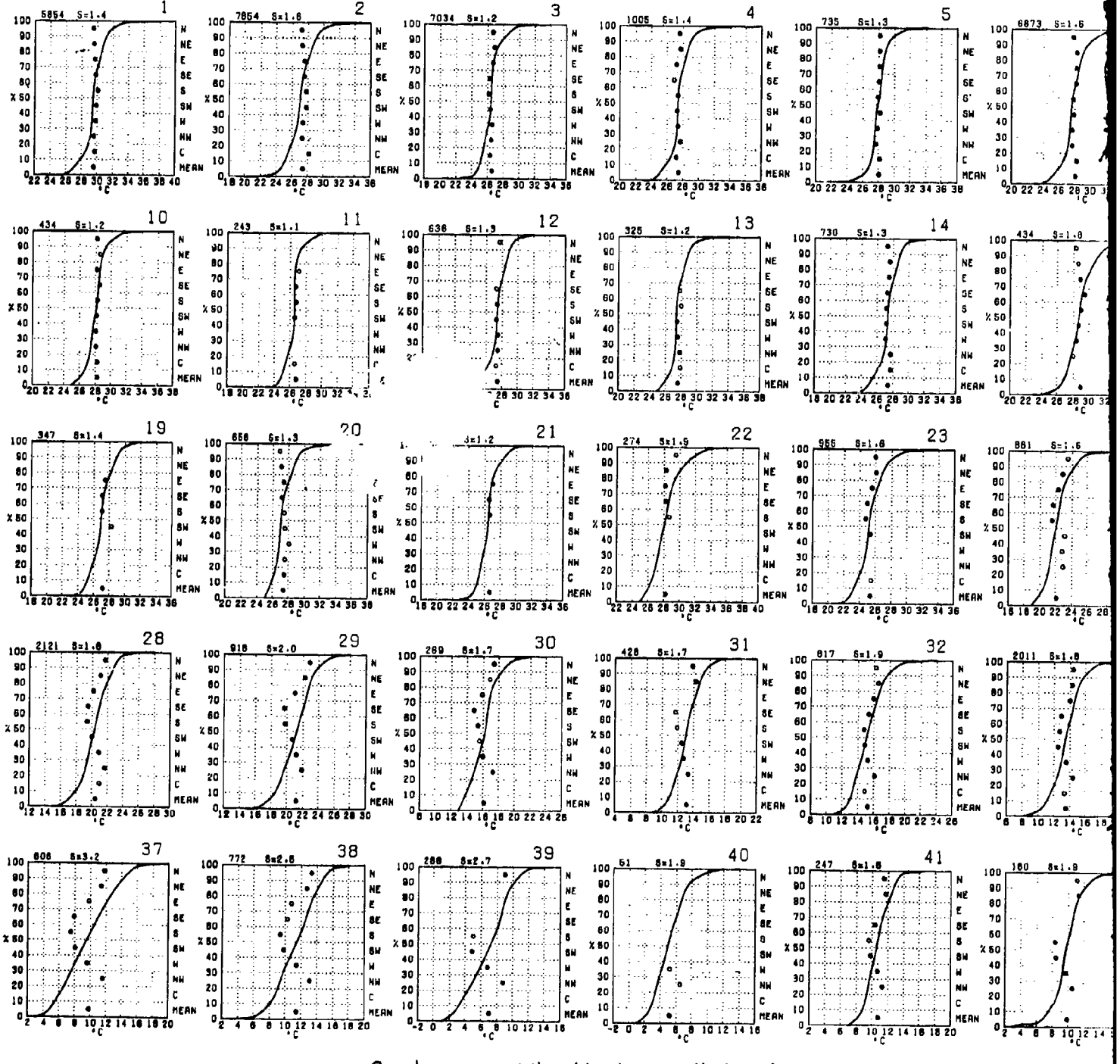
70
80
90
100
110
120
130

SURFACE AIR TEMPERATURE



SURFACE AIR TEMPERATURE



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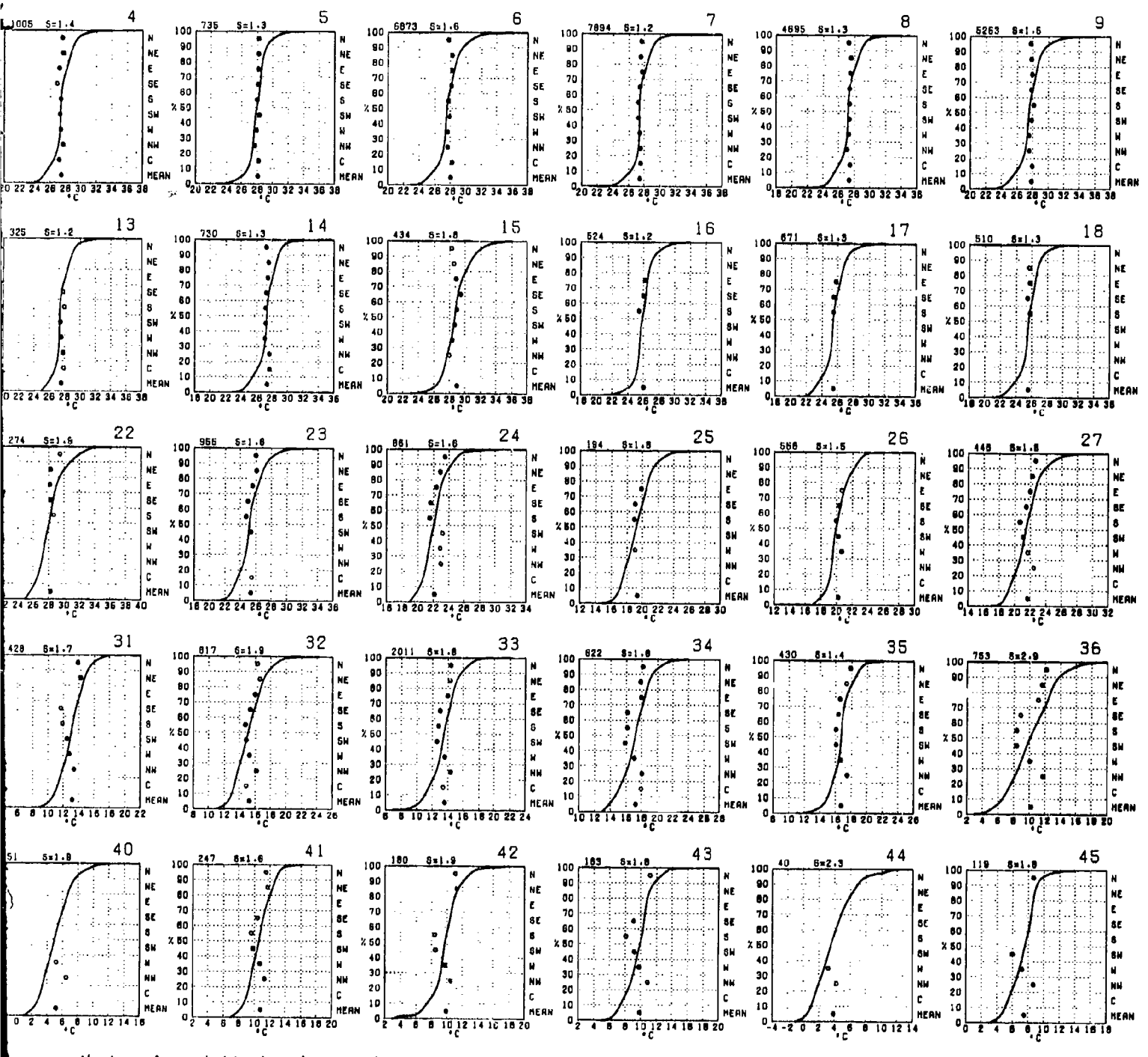
OCTOBER



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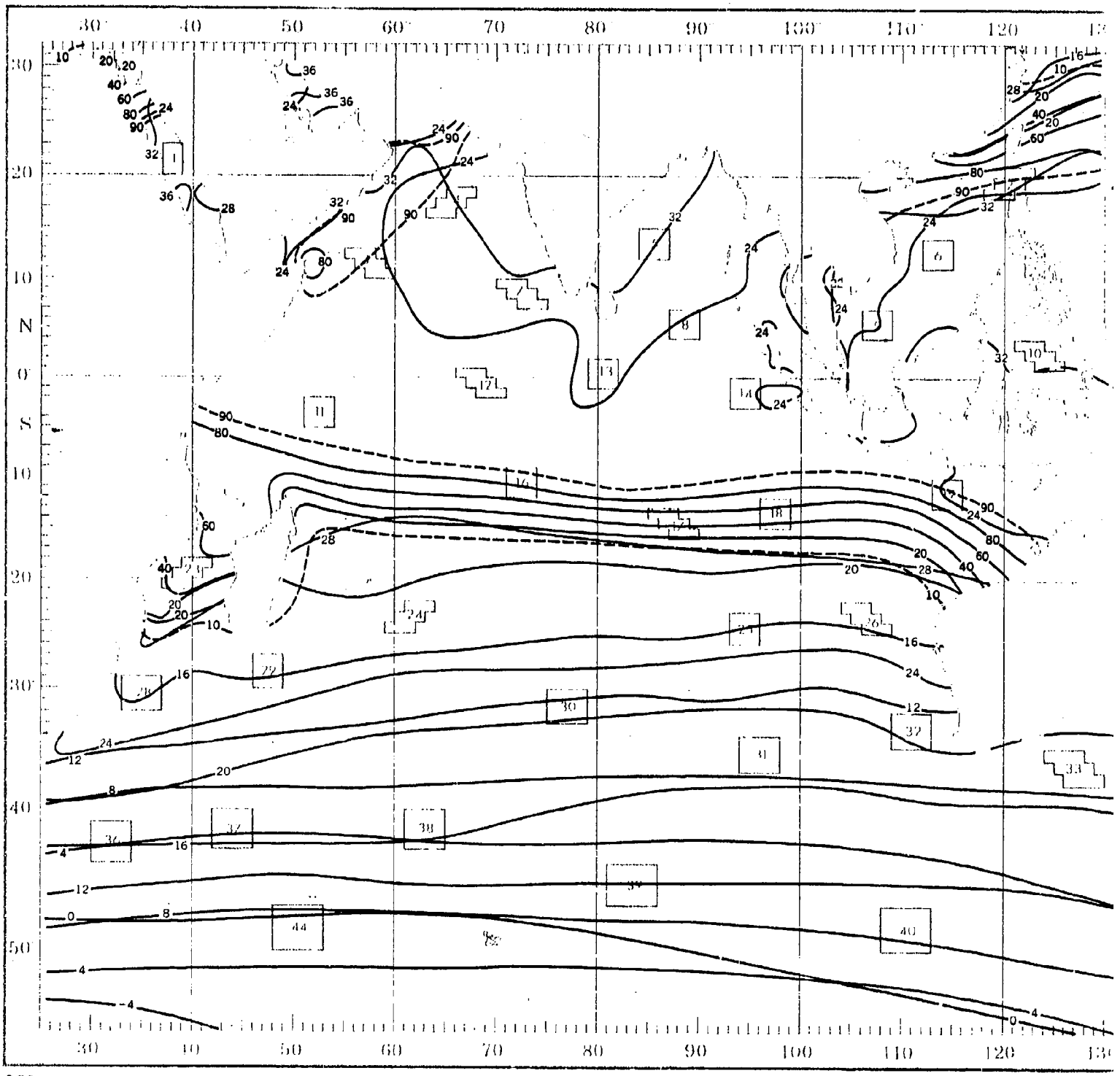
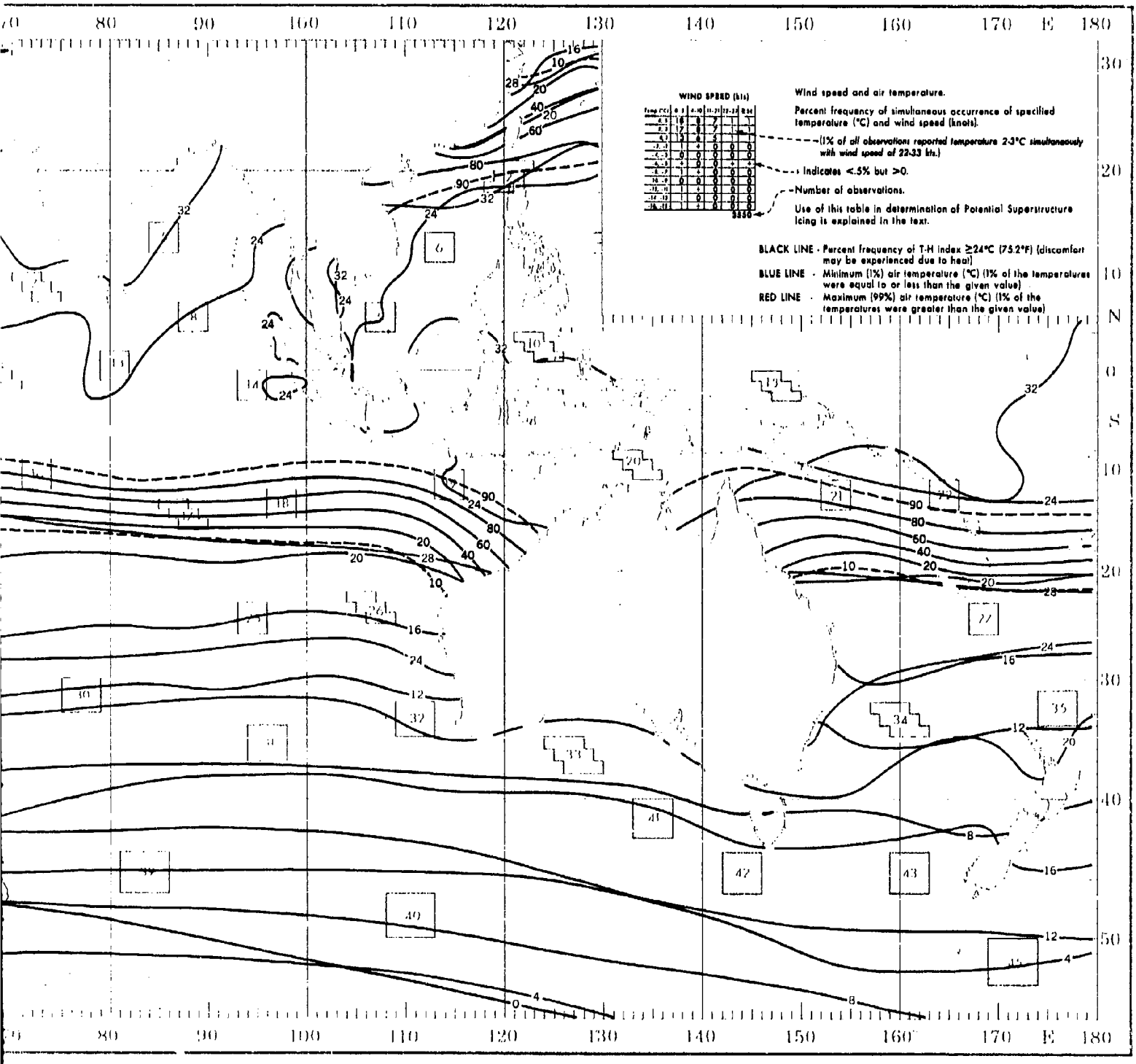
OCTOBER

TEMPERATURE



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	+	+	0	0
34.36	+	1	+	0	0
32.33	2	4	1	+	0
30.31	13	21	6	+	0
28.28	13	24	9	+	0
26.27	1	2	1	+	0
24.26	+	+	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0

5899

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	+	0
32.33	+	+	1	+	0
30.31	+	2	4	1	+
28.28	1	8	19	10	1
26.27	1	7	20	16	1
24.26	+	1	3	3	1
22.23	0	+	+	+	+
20.21	+	0	+	+	0
18.18	0	+	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

7850

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	+	1	+	+	0
28.28	5	11	3	+	0
26.27	18	39	10	+	+
24.26	5	6	2	+	+
22.23	+	+	0	0	0
20.21	+	+	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

7049

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	1	4	2	+	0
28.28	4	24	10	+	0
26.27	10	31	10	+	0
24.26	1	2	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

1012

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	2	8	2	+	0
28.28	10	35	15	2	+
26.27	3	13	7	1	+
24.26	0	+	1	0	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

740

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.36	+	+	+	0	0
32.33	+	1	1	+	0
30.31	2	8	4	+	0
28.28	8	24	18	2	+
26.27	3	13	14	3	+
24.26	+	1	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0

6882

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	0	0	0
30.31	4	5	+	0	0
28.28	24	37	5	+	0
26.27	6	12	3	+	0
24.26	+	1	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

439

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	0	1	0	0
28.28	4	14	2	1	0
26.27	11	44	11	+	0
24.26	1	5	3	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

248

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	+	4	1	+	0
28.28	4	27	10	+	0
26.27	4	26	16	+	0
24.26	0	3	3	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

838

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	0	0	0
30.31	2	2	2	0	0
28.28	4	27	15	1	0
26.27	5	22	15	1	0
24.26	0	1	2	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

326

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	2	2	1	+	0
28.28	14	20	8	1	0
26.27	12	26	6	1	0
24.26	1	3	2	+	+
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

730

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	1	0	0	0
32.33	+	6	+	0	0
30.31	3	14	3	0	0
28.28	9	36	8	0	0
26.27	4	11	2	0	0
24.26	0	1	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

437

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	0	0	0
30.31	0	8	1	0	0
28.28	3	20	9	0	0
26.27	3	34	17	0	0
24.26	+	5	1	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

347

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	+	0
30.31	1	2	1	0	0
28.28	8	20	7	+	0
26.27	12	30	13	+	0
24.26	1	2	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

661

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	0	1	+	0	0
28.28	2	10	10	2	0
26.27	2	29	29	4	0
24.26	1	8	5	1	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

515

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	0	0	0	0
32.33	3	3	+	0	0
30.31	3	8	2	0	0
28.28	8	23	12	3	0
26.27	4	15	16	1	0
24.26	0	2	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

274

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	+	1	1	+	0
28.28	1	4	2	+	0
26.27	4	18	12	2	0
24.26	4	24	14	2	+
22.23	1	4	3	+	0
20.21	+	+	+	0	0
18.18	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

973

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	+	+	+	0	0
26.27	+	1	+	+	0
24.26	2	9	7	1	0
22.23	3	18	21	5	0
20.21	+	8	18	5	+
18.18	+	+	2	1	+
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

861

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	0	+	+	0
26.26	+	1	2	1	+
24.25	1	6	12	5	1
22.23	2	11	18	8	2
20.21	1	7	9	4	2
18.19	+	2	2	1	+
16.17	0	+	+	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0

2128

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.28	0	0	+	0	0
26.27	+	+	1	+	0
24.26	1	3	7	2	0
22.23	2	8	15	6	1
20.21	1	9	15	7	1
18.18	0	6	7	5	1
16.17	0	+	2	+	1
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.8	0	0	0	0	0

920

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	0	+	0	0
20.21	1	1	2	0	0
18.18	1	7	8	1	0
16.17	4	17	18	4	+
14.15	1	13	14	3	0
12.13	0	2	+	1	+
10.11	0	0	0	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

270

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	+	+	0	0	0
16.17	0	2	3	2	1
14.15	2	7	13	0	1
12.13	1	10	20	11	2
10.11	1	4	8	3	+
8.8	0	0	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

431

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	+	1	+	0	0
18.18	+	4	4	1	0
16.17	2	12	16	4	+
14.15	2	12	18	7	1
12.13	1	8	5	4	1
10.11	0	+	+	0	0
8.8	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

821

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	0	+	0
18.18	+	1	1	+	0
16.17	1	5	5	2	+
14.16	2	13	16	6	1
12.13	2	12	14	6	1
10.11	+	2	3	3	1
8.8	0	+	+	1	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

2026

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	+	1	+	0
16.17	0	+	1	1	1
14.15	+	1	4	3	2
12.13	1	2	8	4	2
10.11	1	2	9	6	3
8.8	+	3	8	6	2
6.7	1	3	8	5	3
4.5	1	2	2	2	2
2.3	0	0	0	+	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

806

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	0	0	+	0
16.17	0	1	3	1	+
14.15	0	1	7	7	4
12.13	1	2	8	10	7
10.11	1	3	6	7	4
8.8	+	2	5	6	5
6.7	0	+	2	2	2
4.5	0	0	0	+	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

772

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	1	1	+
10.11	0	+	4	6	5
8.8	0	+	10	9	7
6.7	0	3	9	8	3
4.5	+	2	6	11	2
2.3	0	0	3	3	1
0.1	0	0	0	0	1
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

286

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	2	0	0	0
8.8	2	0	2	4	2
6.7	0	10	8	18	0
4.5	0	8	12	8	12
2.3	0	2	12	4	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

51

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	1	2	1	0
12.13	1	11	13	8	2
10.11	0	13	17	9	2
8.8	0	3	9	5	4
6.7	0	0	+	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

247

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	+	0	0	0
14.15	0	0	1	0	1
12.13	1	7	6	5	1
10.11	1	7	12	11	3
8.8	1	7	13	13	3
6.7	2	2	3	3	0
4.5	0	0	0	0	2
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

180

Graphs represent the objective compilation of available data for specified areas without rega
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

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4

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	1	4	2	+	0
28.29	4	24	10	+	0
26.27	10	31	10	+	0
24.25	1	2	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1012

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	2	6	2	+	0
28.29	10	35	15	2	+
26.27	3	13	7	1	+
24.25	0	+	1	0	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

740

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	+	0	0
34.35	+	+	+	0	0
32.33	+	1	1	+	0
30.31	2	6	4	+	0
28.29	6	24	16	2	+
26.27	3	13	14	3	+
24.25	+	1	1	+	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6882

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	+	+	+	0	0
30.31	1	3	1	+	0
28.29	11	24	8	+	+
26.27	10	27	8	1	0
24.25	+	2	1	+	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

7928

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	0	0	0
32.33	+	+	+	+	0
30.31	1	2	2	+	0
28.29	8	19	15	2	+
26.27	7	22	16	3	0
24.25	+	3	2	1	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4711

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	0	0	0
34.35	+	+	+	0	0
32.33	+	1	+	0	0
30.31	2	6	2	+	0
28.29	13	29	8	+	0
26.27	7	19	8	1	0
24.25	+	2	1	+	+
22.23	0	+	+	0	0
20.21	0	+	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

5308

13

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	0	0	0
30.31	2	2	2	0	0
28.29	4	27	15	1	0
26.27	5	22	15	1	0
24.25	0	1	2	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

326

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	2	2	1	+	0
28.29	14	20	8	1	0
26.27	12	26	6	1	0
24.25	1	3	2	+	+
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

730

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	1	0	0	0
32.33	+	6	+	0	0
30.31	3	14	3	0	0
28.29	9	35	8	0	0
26.27	4	11	2	0	0
24.25	0	1	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

437

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	0	1	0	0
28.29	+	2	6	1	0
26.27	2	14	41	6	+
24.25	1	6	15	3	+
22.23	+	+	1	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

524

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	1	0	0
28.29	+	1	3	2	+
26.27	0	4	26	13	1
24.25	+	4	25	14	1
22.23	0	+	2	1	0
20.21	0	+	0	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

872

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	2	6	+	0
26.27	+	8	30	8	+
24.25	+	7	27	9	+
22.23	0	1	2	1	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

610

22

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	0	0	0	0
32.33	3	3	+	0	0
30.31	3	8	2	0	0
28.29	6	23	12	3	0
26.27	4	15	15	1	0
24.25	0	2	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

274

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	+	1	1	+	0
28.29	1	4	2	+	0
26.27	4	15	12	2	0
24.25	4	24	14	2	+
22.23	1	4	3	+	0
20.21	+	+	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

973

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	+	+	0	0
26.27	+	1	+	+	0
24.25	2	9	7	1	0
22.23	3	18	21	5	0
20.21	+	8	16	5	+
18.19	+	+	2	1	+
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

861

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	1	1	0	0	0
22.23	2	6	3	1	0
20.21	4	17	11	3	1
18.19	5	13	10	6	2
16.17	1	5	7	4	1
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

195

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	2	1	+	0
22.23	2	8	9	1	0
20.21	2	19	23	3	0
18.19	1	10	15	3	0
16.17	+	1	+	1	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

551

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	0	0	0
26.27	0	2	1	0	0
24.25	1	8	4	+	0
22.23	4	18	15	1	0
20.21	1	18	17	1	0
18.19	+	4	4	1	0
16.17	0	0	+	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

447

31

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	+	+	0	0	0
16.17	0	2	3	2	1
14.15	2	7	13	9	1
12.13	1	10	20	11	2
10.11	1	4	5	3	+
8.9	0	0	0	+	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

431

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	+	1	+	+	0
18.19	+	4	4	1	0
16.17	2	12	16	4	+
14.15	2	12	15	7	1
12.13	1	8	5	4	1
10.11	0	0	+	+	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

821

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	0	+	0
18.19	+	1	1	+	+
16.17	1	5	5	2	+
14.15	2	13	16	5	1
12.13	2	12	14	5	1
10.11	+	2	3	3	1
8.9	0	+	+	1	+
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

2025

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	+	0
20.21	1	2	6	1	0
18.19	2	11	16	4	+
16.17	3	12	16	3	+
14.15	+	5	6	2	1
12.13	0	+	1	+	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

623

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	0	0	0
20.21	0	1	1	0	0
18.19	2	12	10	2	0
16.17	3	22	26	7	1
14.15	1	4	8	2	0
12.13	0	+	+	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

490

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	1	+	+
16.17	0	1	1	1	+
14.15	+	1	4	3	+
12.13	1	4	11	5	1
10.11	+	4	10	7	2
8.9	+	5	8	7	1
6.7	0	3	5	5	2
4.5	+	1	1	1	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

783

40

WIND SPEED (KTS)

P (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	2	0	0	0
8.9	2	0	2	4	2
6.7	0	10	8	18	0
4.5	0	6	12	6	12
2.3	0	2	12	4	0
0.1	0	0	0	0	0
-2.-1	0	8	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

51

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	1	2	1	0
12.13	1	11	13	8	2
10.11	0	13	17	9	2
8.9	0	3	9	5	4
6.7	0	0	+	1	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

247

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	1	0	0
14.15	0	0	1	0	1
12.13	1	7	6	5	1
10.11	1	7	12	11	3
8.9	1	7	11	13	3
6.7	2	2	3	3	0
4.5	0	0	0	0	2
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

180

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	1	1	0
12.13	0	4	10	1	1
10.11	1	8	16	10	2
8.9	0	4	14	8	7
6.7	0	0	4	4	1
4.5	0	0	0	0	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

183

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	5	0	0	0
8.9	0	0	0	0	0
6.7	0	3	3	8	8
4.5	0	0	20	10	0
2.3	0	3	20	8	3
0.1	0	0	3	8	0
-2.-1	0	0	0	0	9
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

40

45

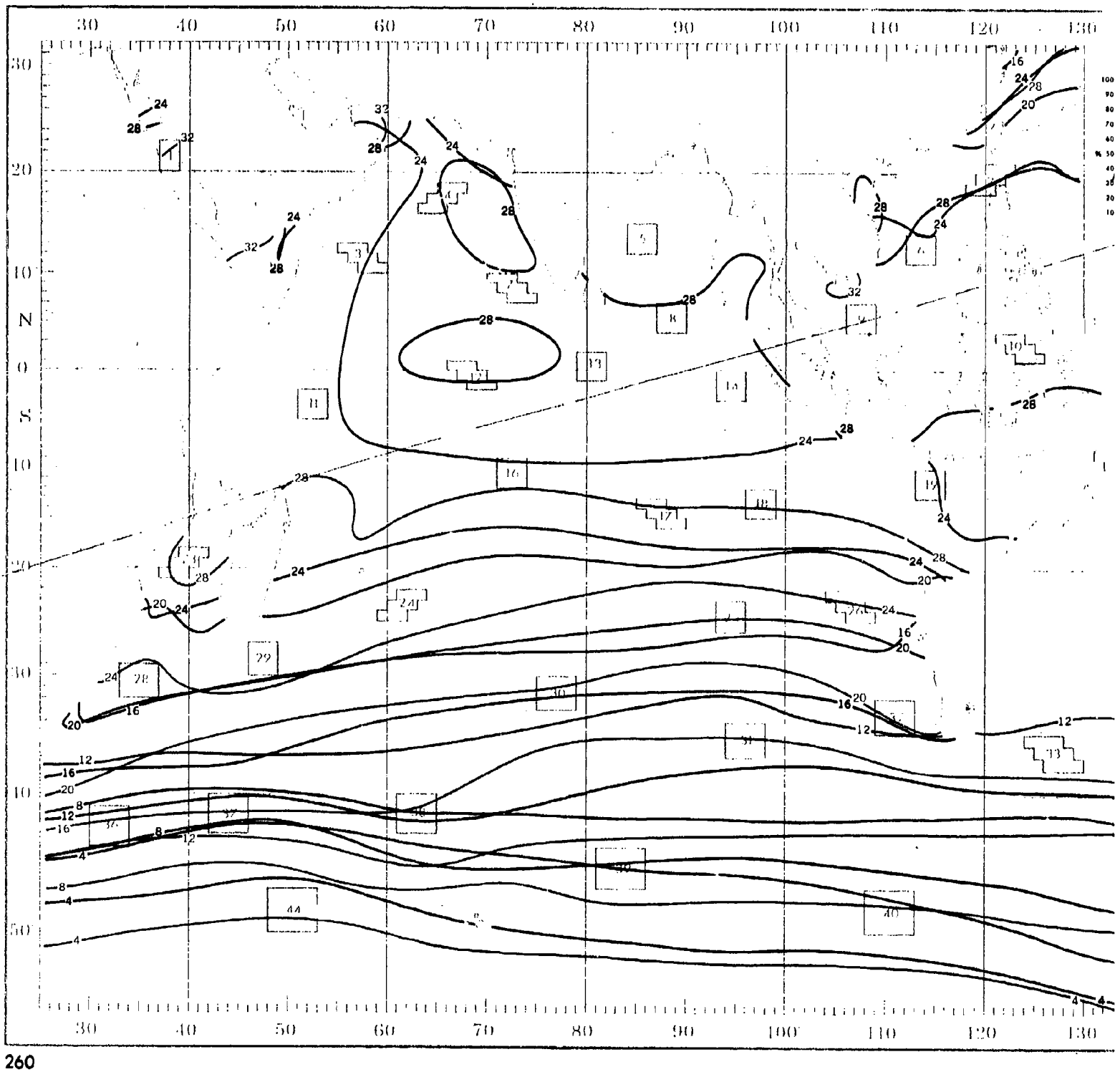
WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	0	1	0
10.11	0	1	4	6	1
8.9	0	3	18	15	5
6.7	0	2	14	18	3
4.5	0	0	5	3	2
2.3	0	0	0	0	1
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

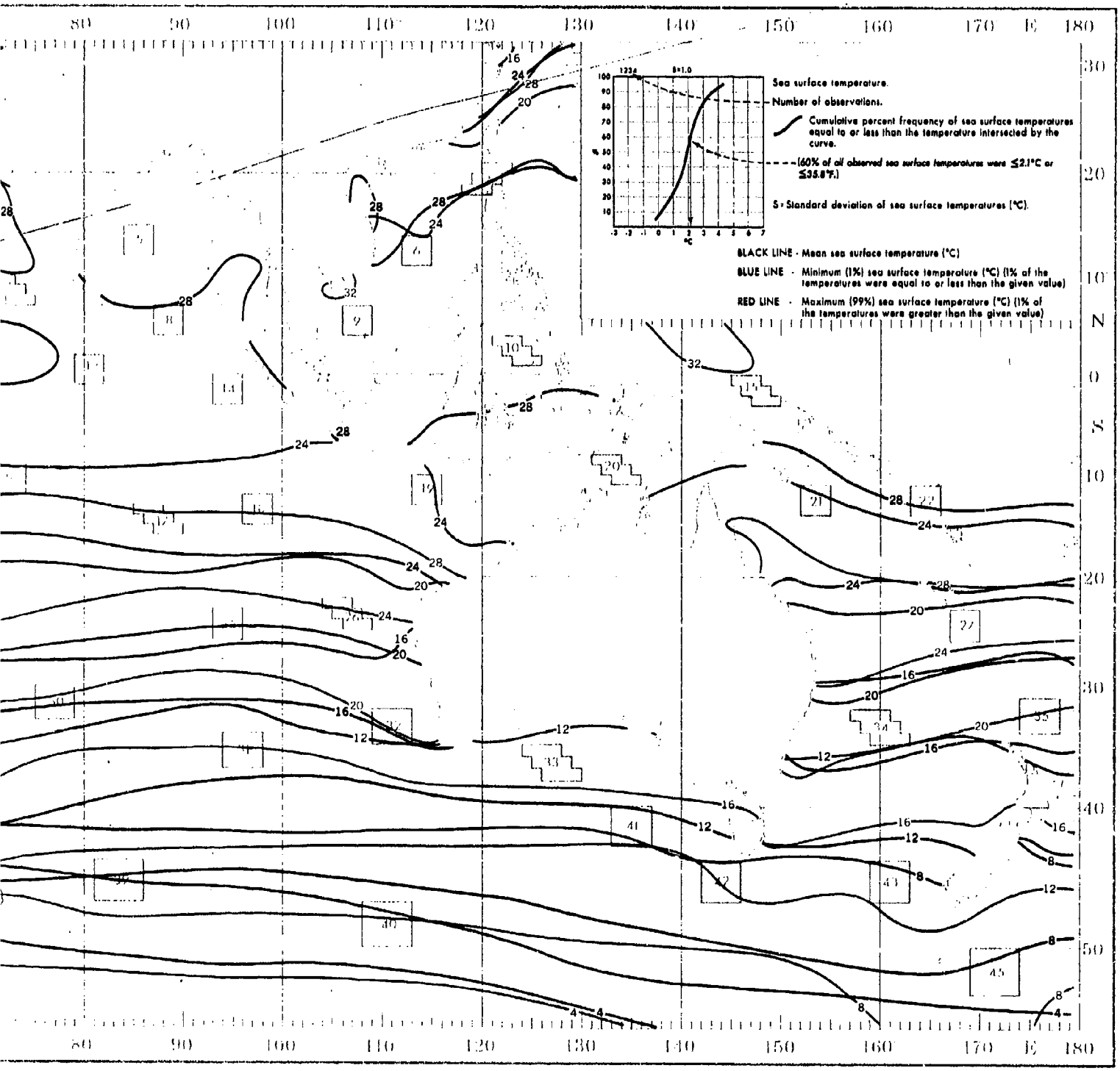
119

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

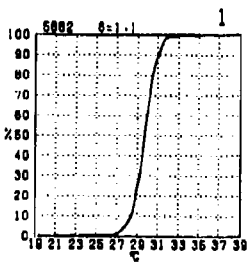
OCTOBER

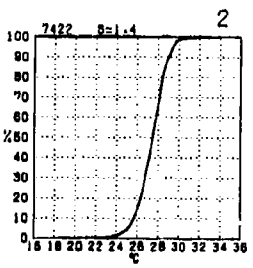


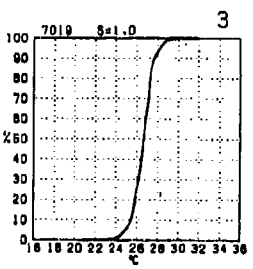
SEA SURFACE TEMPERATURE

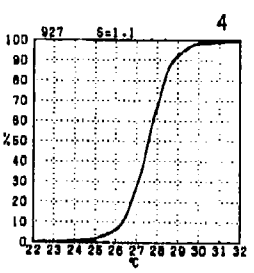


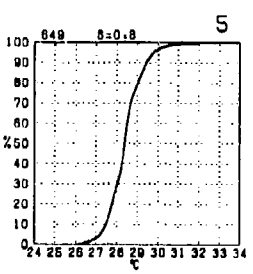
SEA SURFACE TEMPERATURE

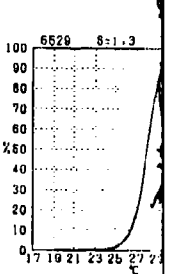


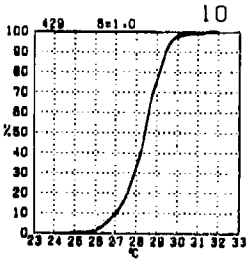


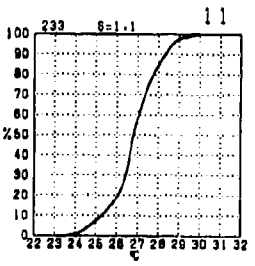


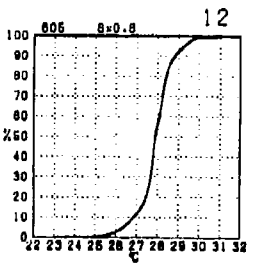


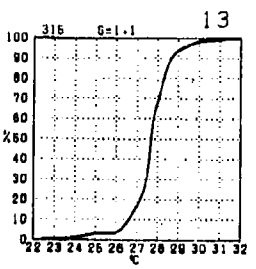


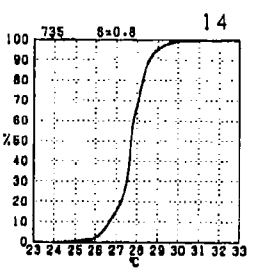


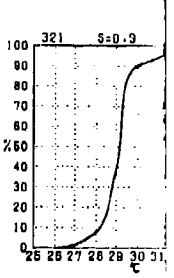


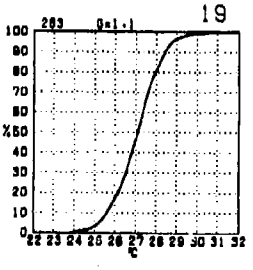


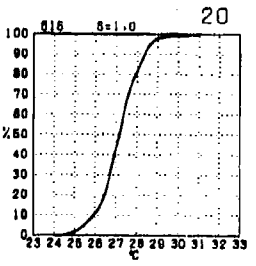


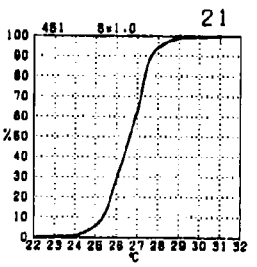


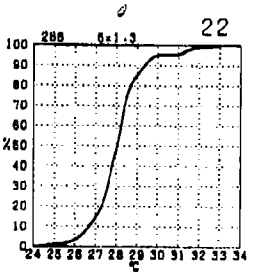


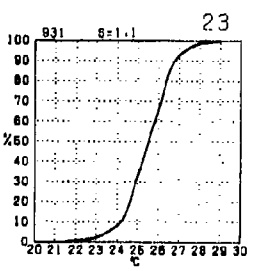


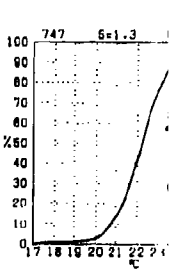


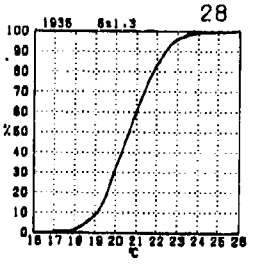


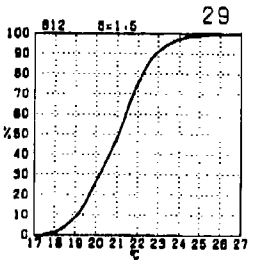


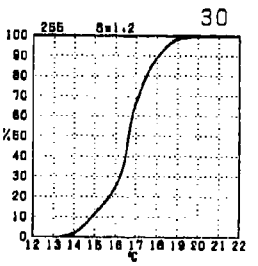


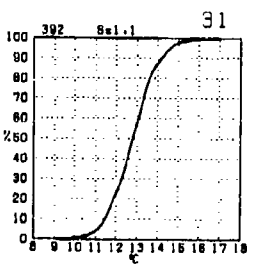


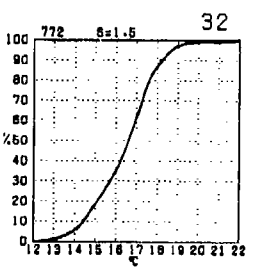


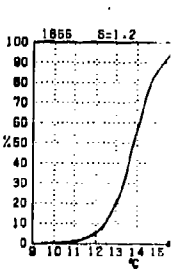


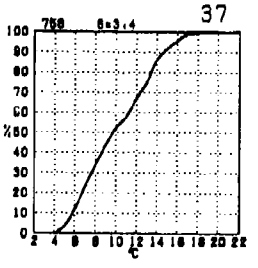


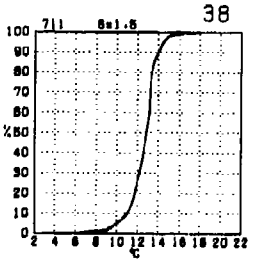


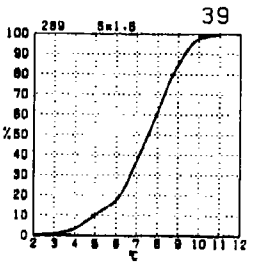


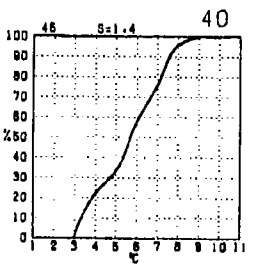


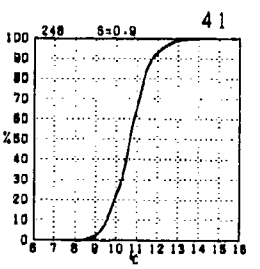


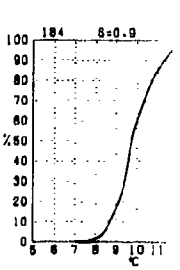






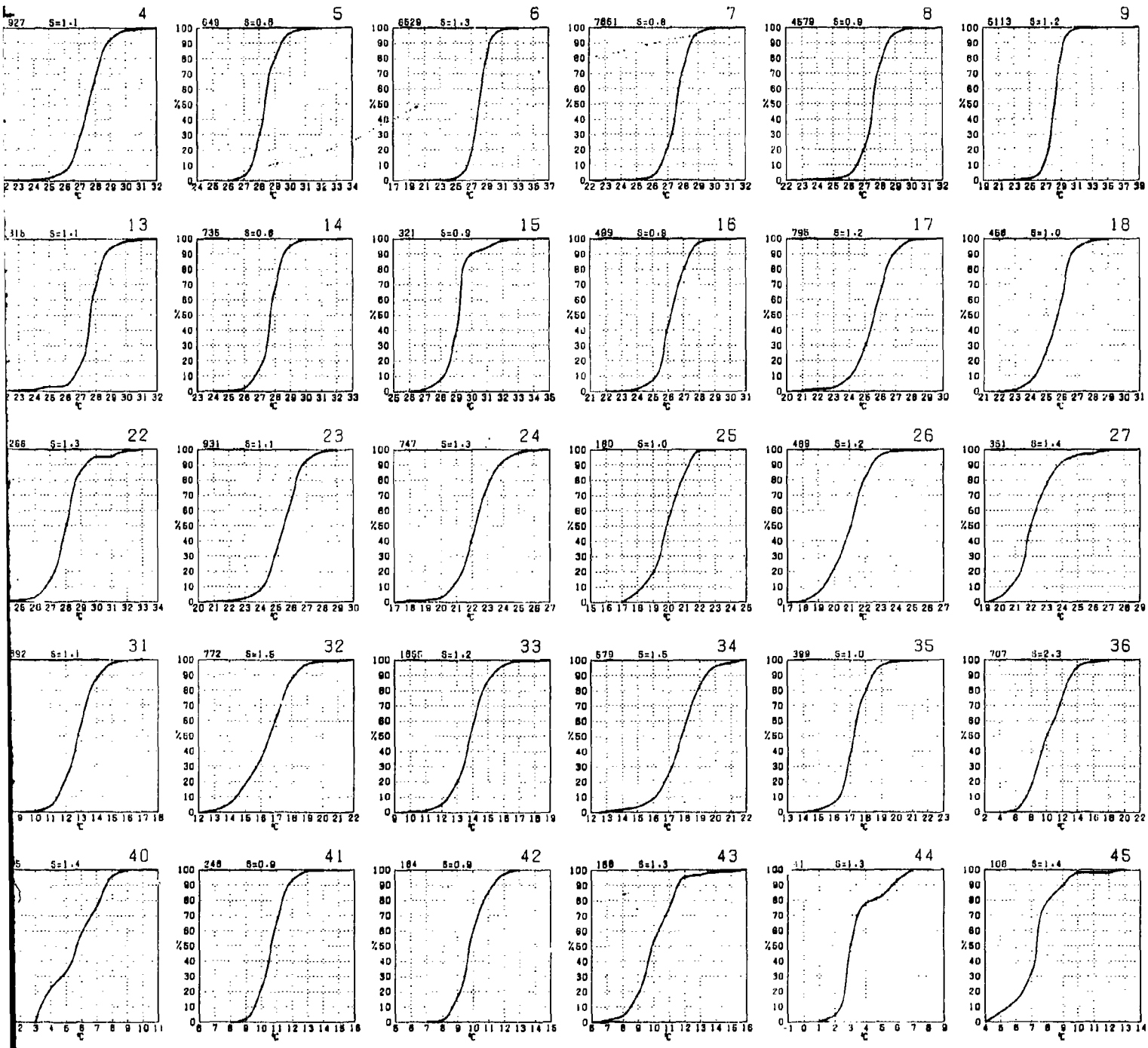






Graphs represent the objective compilation of available data for specified areas wit
The **isopleth** analyses (opposite page) are based on all available data subjectively c

OCTOBER



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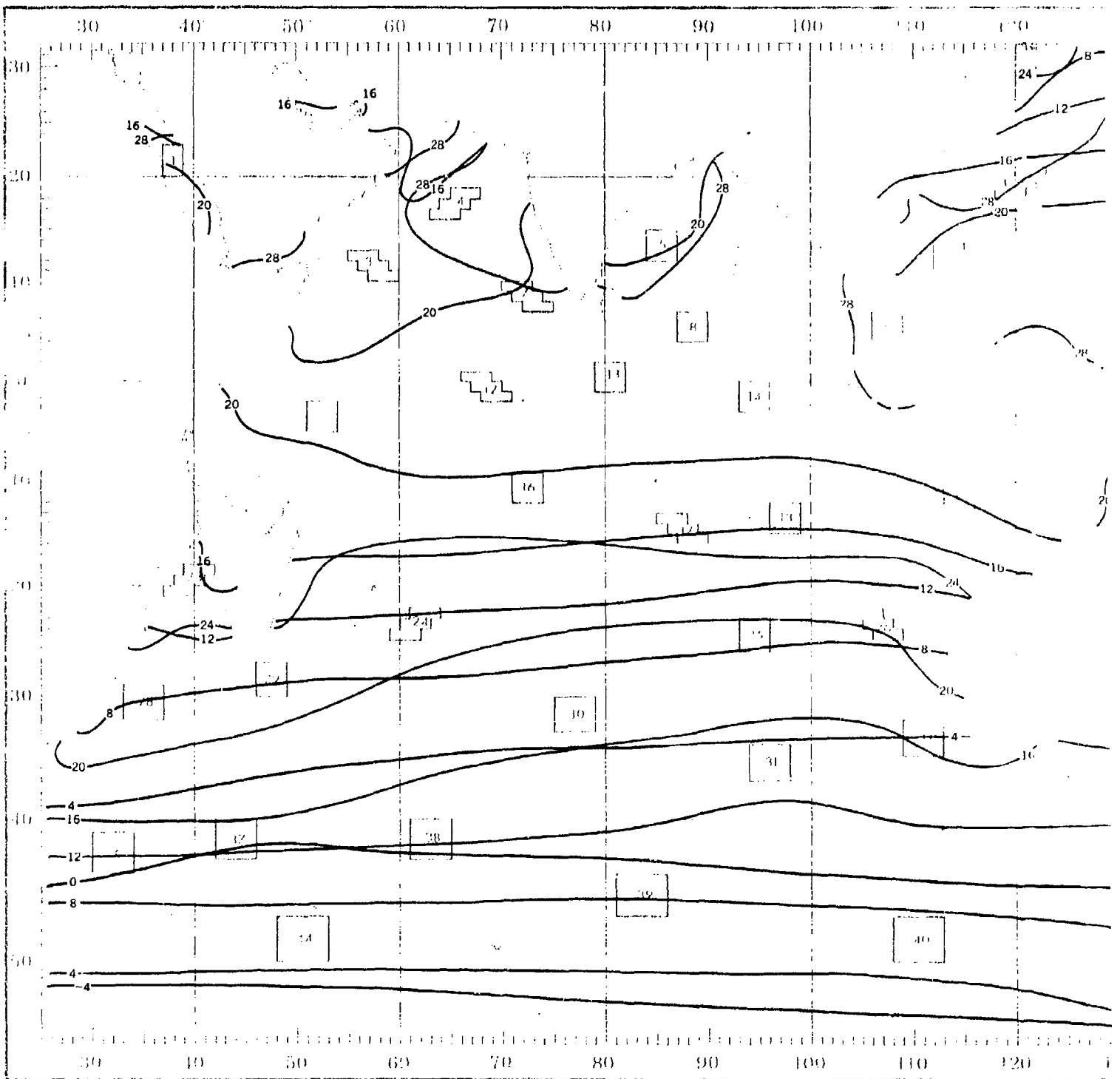
OCTOBER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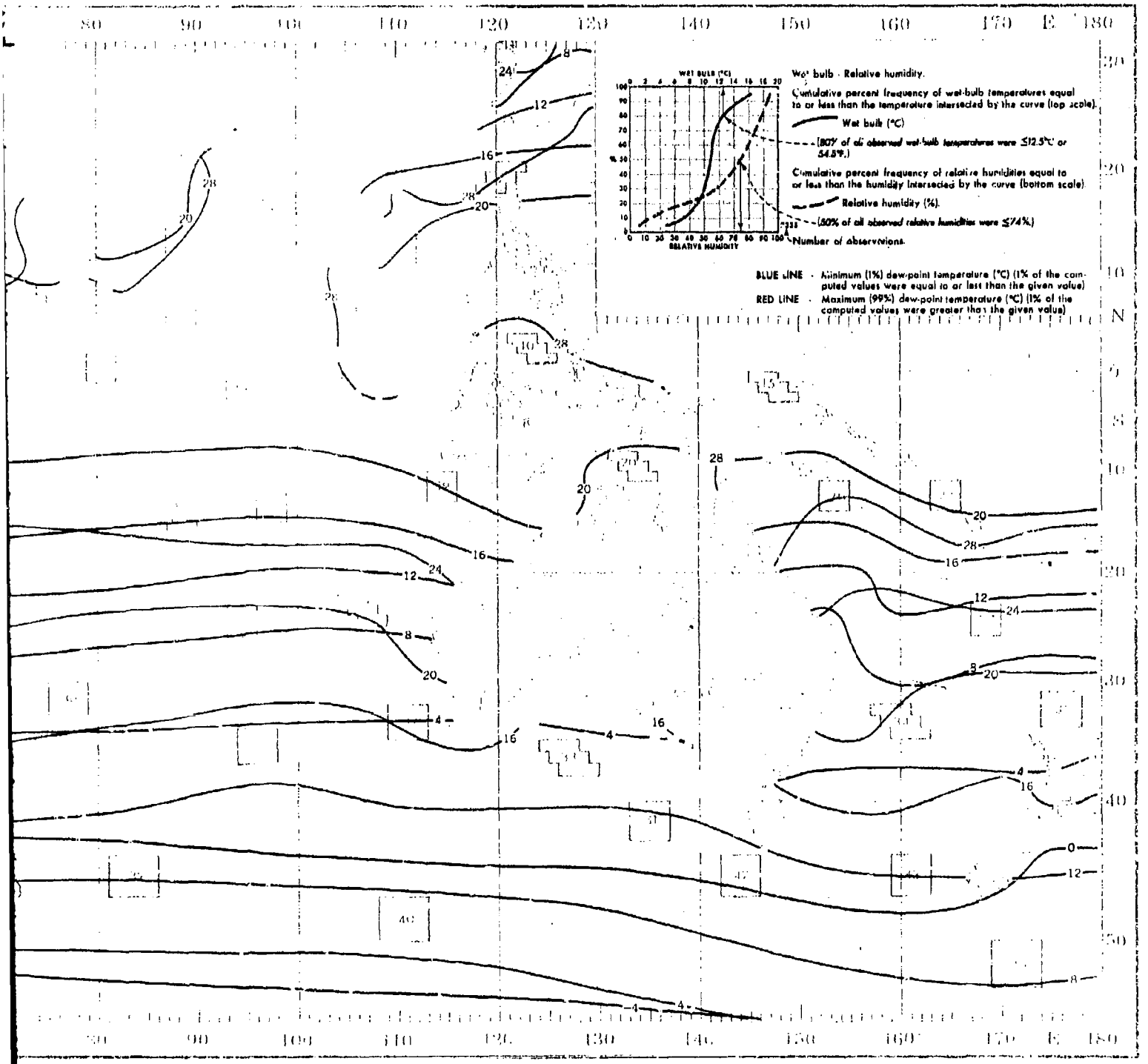
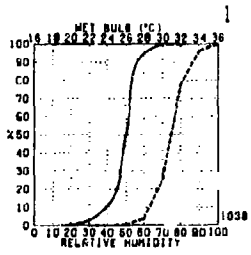
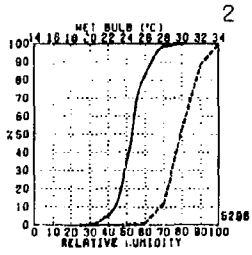
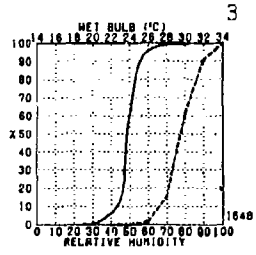
HUMIDITY

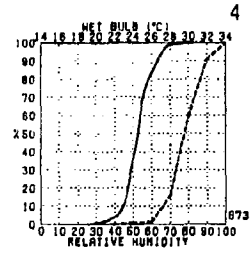

WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C)
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale)
Relative humidity (%).
(50% of all observed relative humidities were ≤74%.)
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

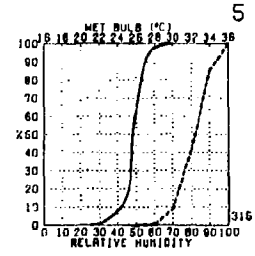
WET BULB AND RELATIVE HUMIDITY

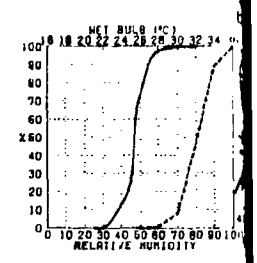


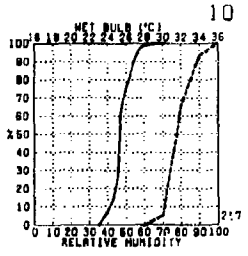


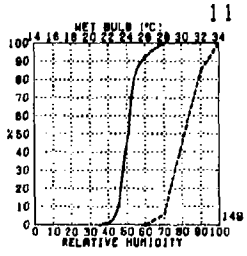


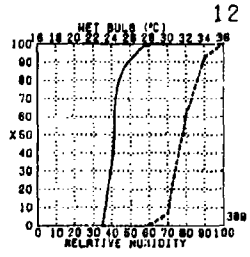


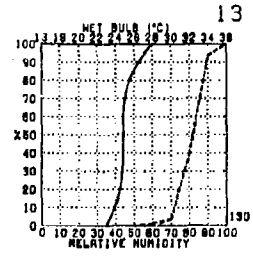


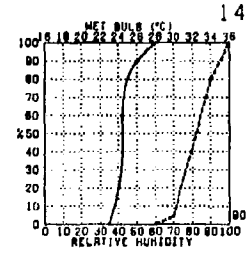


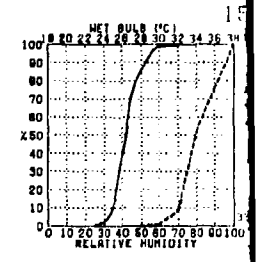


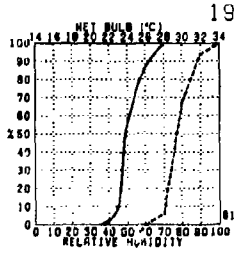


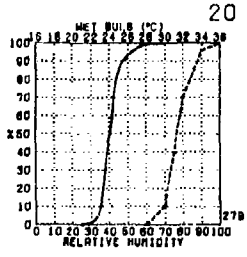


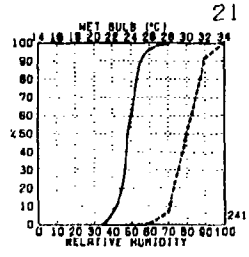


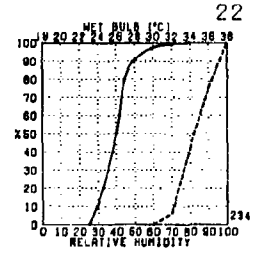


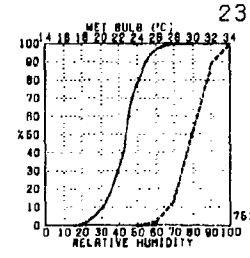


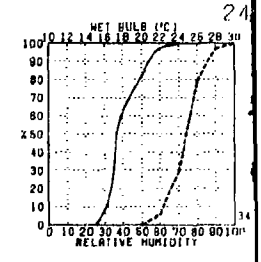


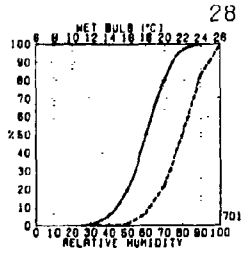


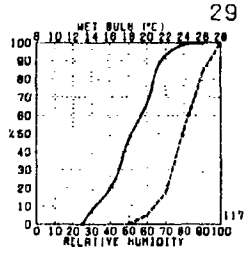


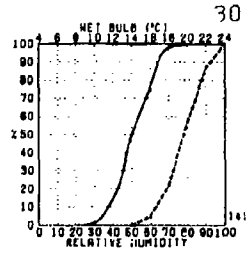


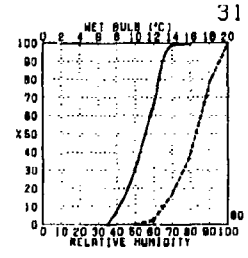


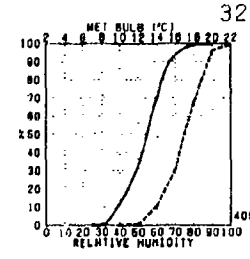


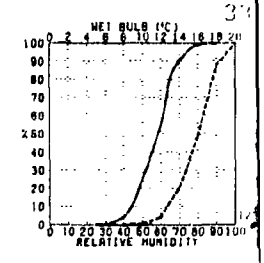


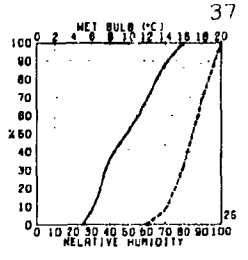


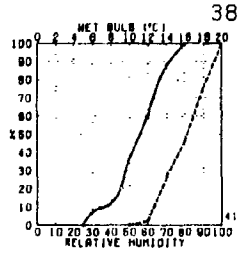


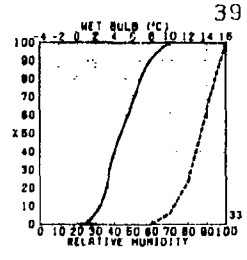












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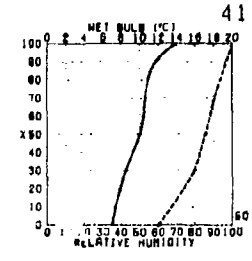

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INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjust

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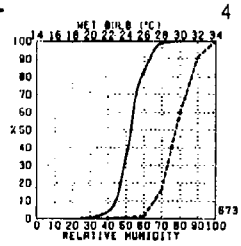

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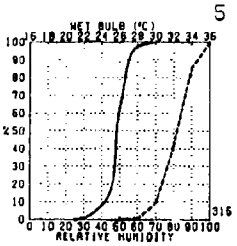

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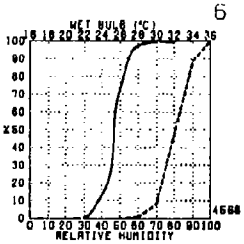

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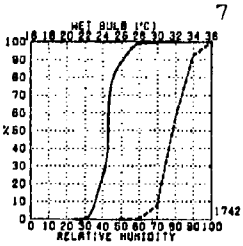

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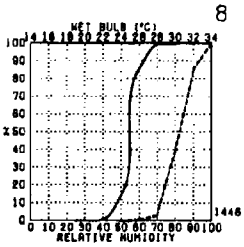

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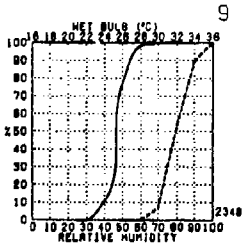

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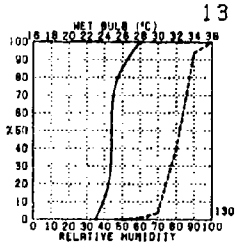

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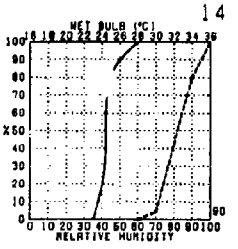

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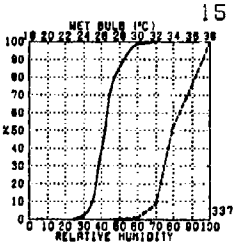

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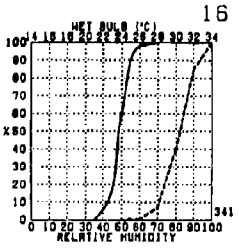

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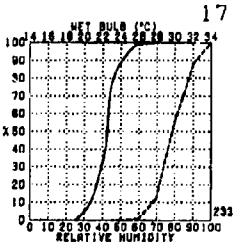

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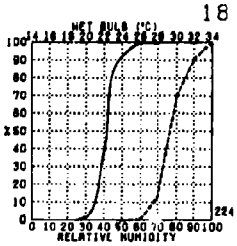

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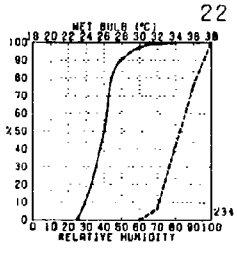

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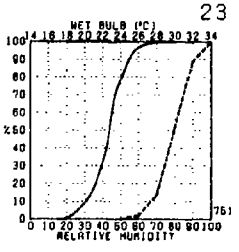

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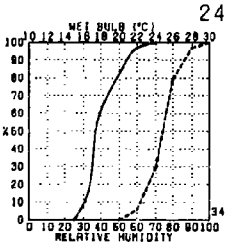

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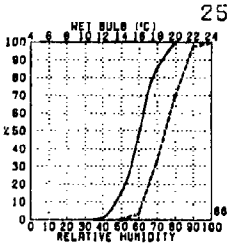

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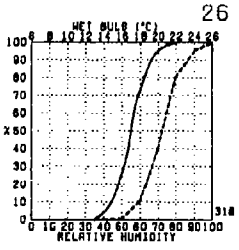

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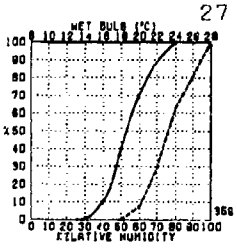

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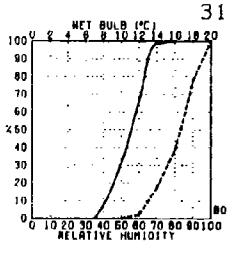

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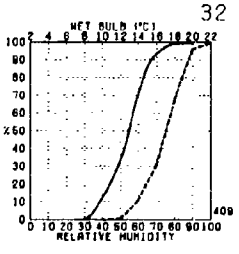

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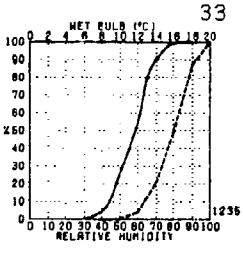

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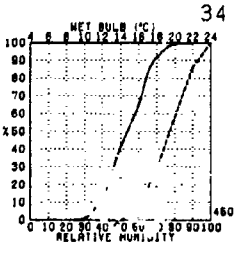

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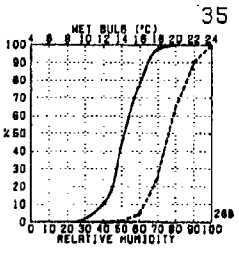

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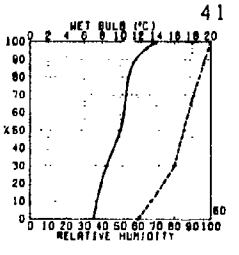

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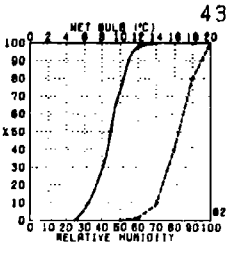

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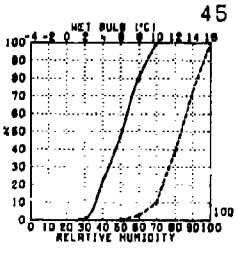

jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

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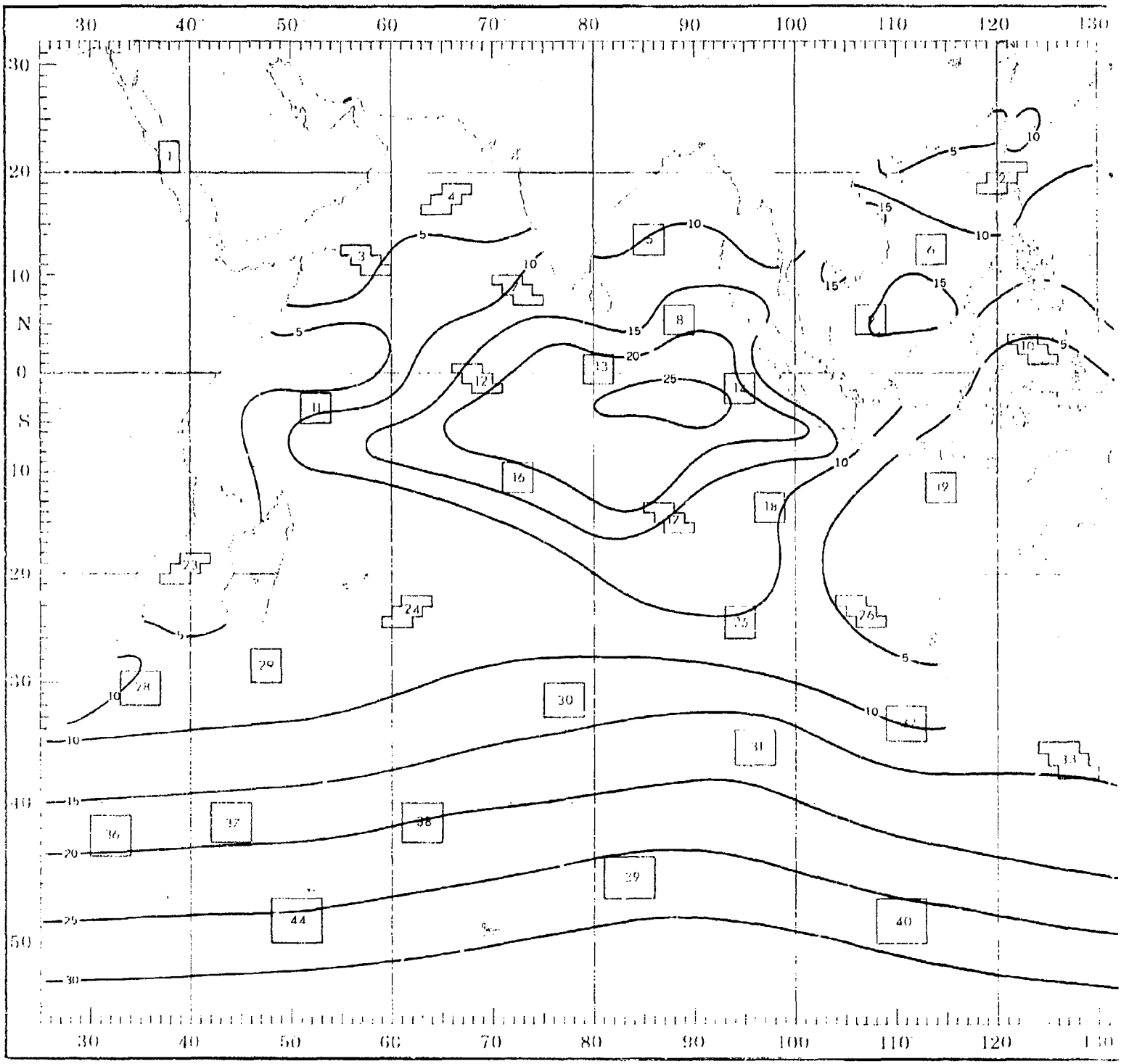
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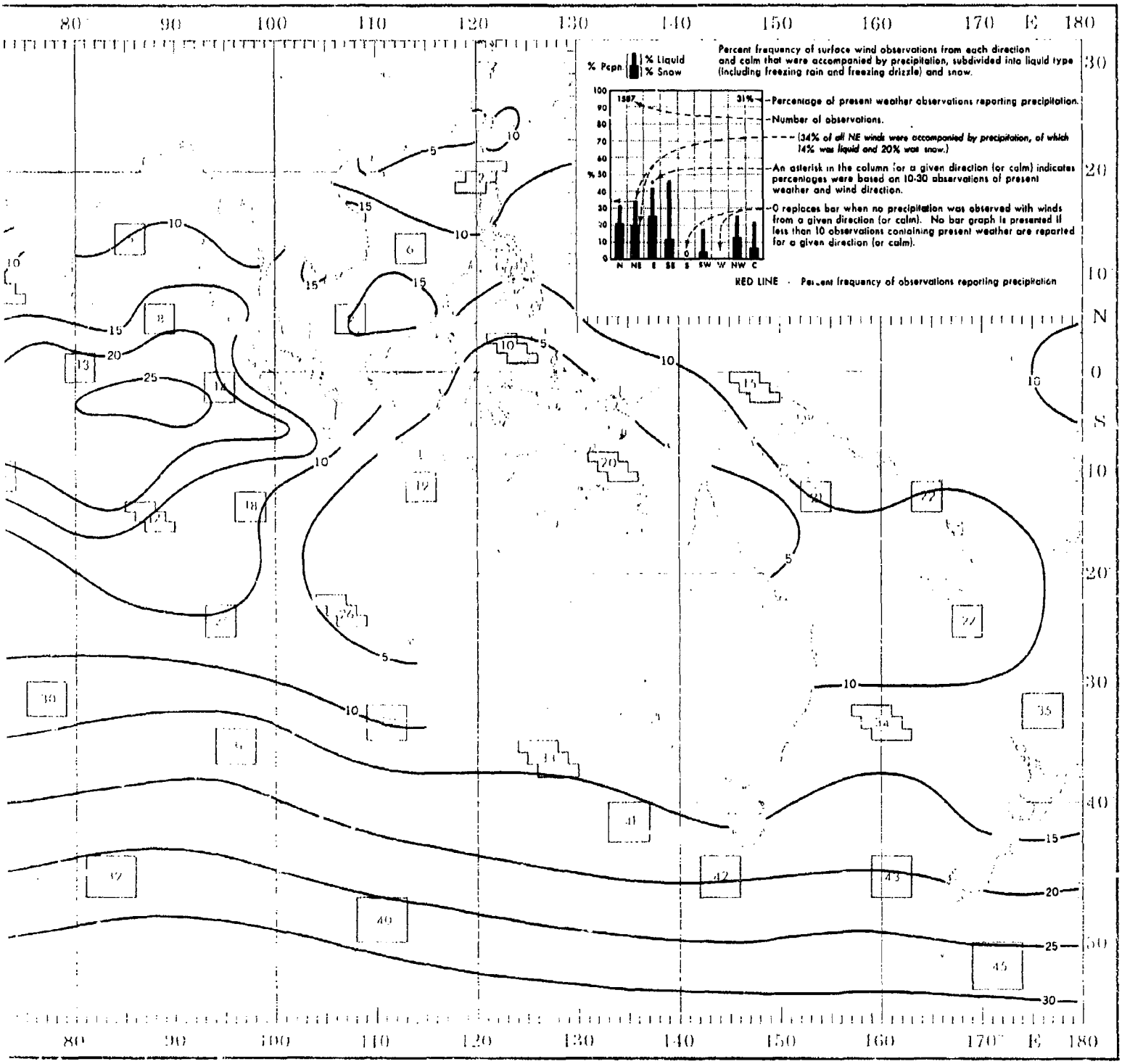

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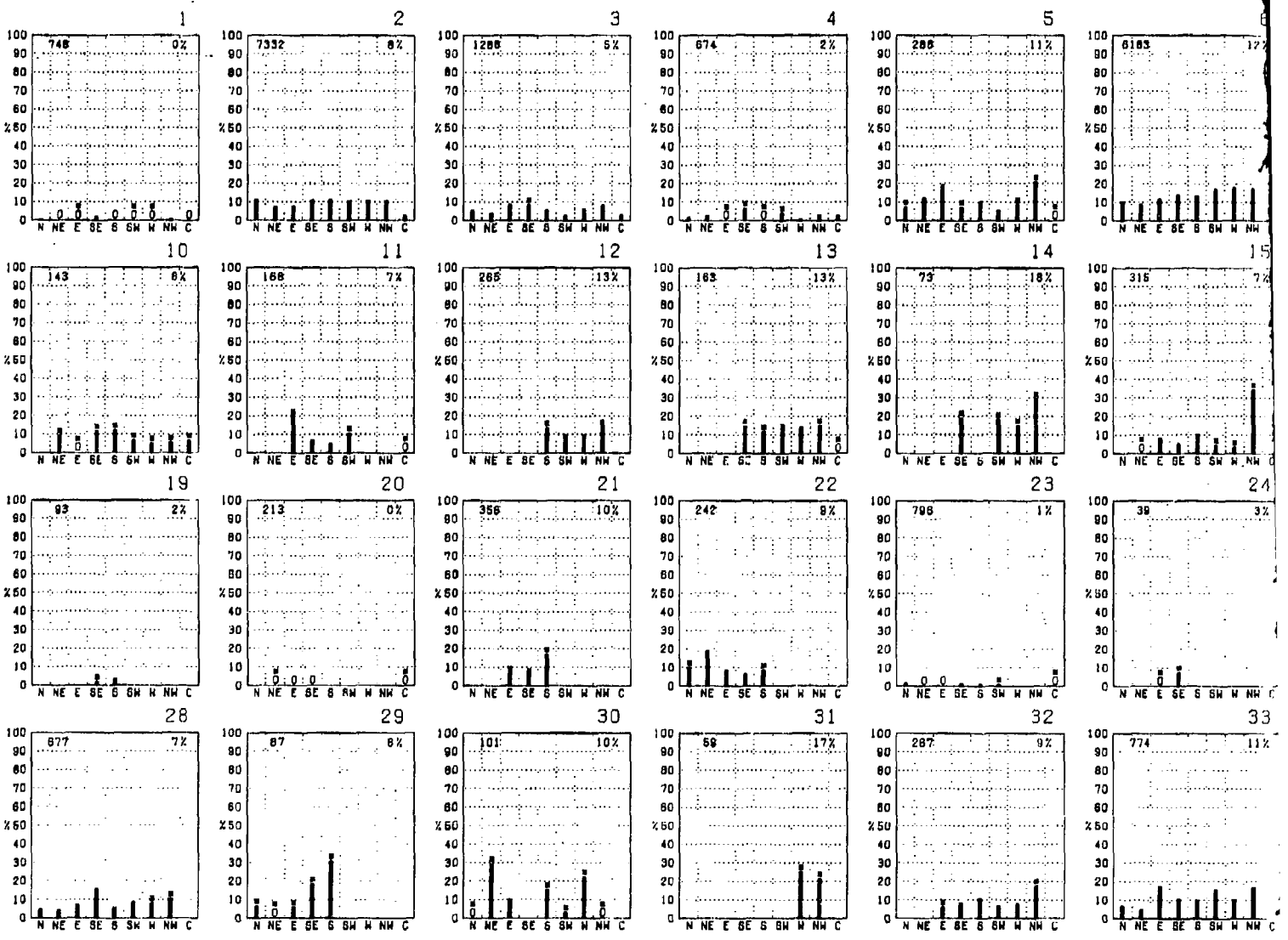

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Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

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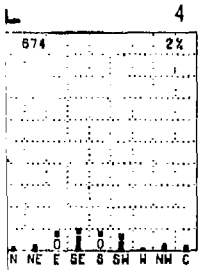

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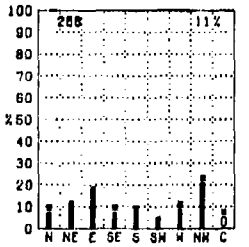

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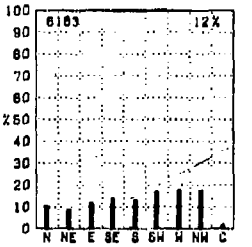

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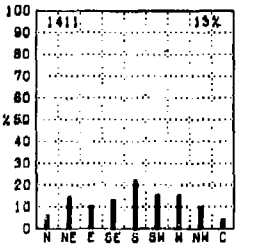

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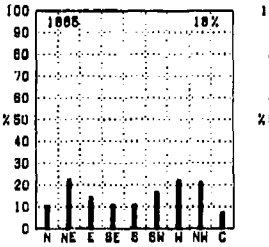

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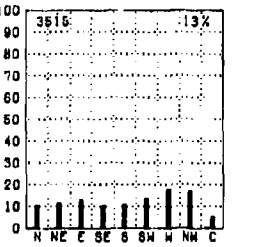

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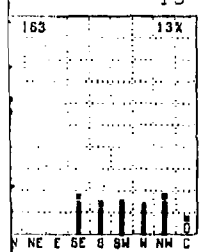

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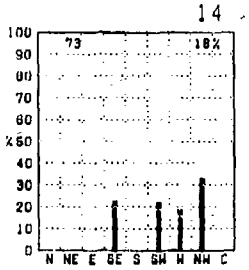

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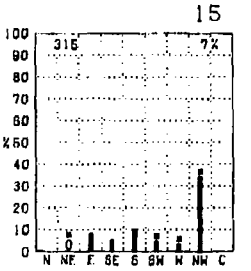

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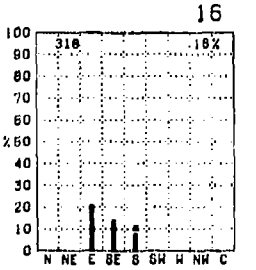

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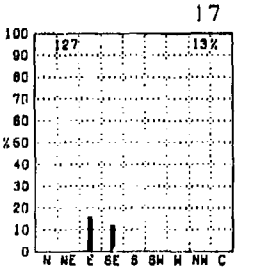

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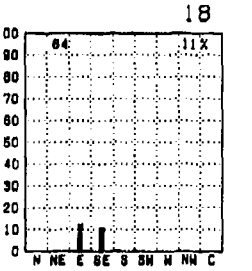

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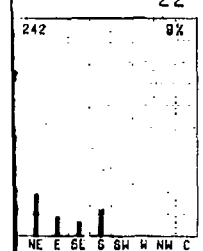

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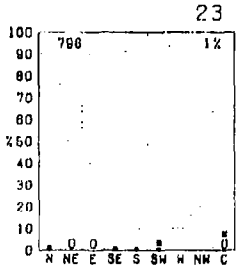

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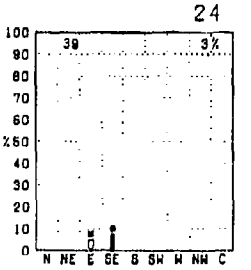

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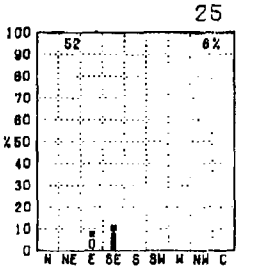

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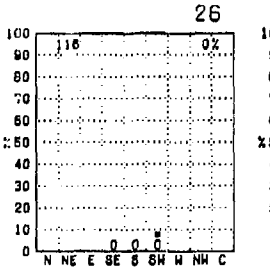

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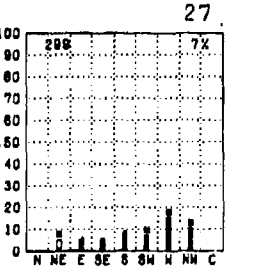

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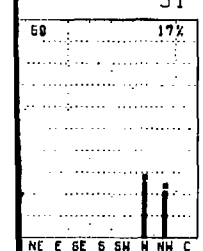

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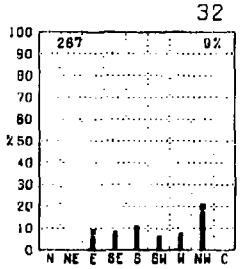

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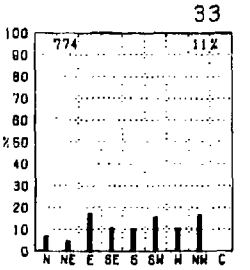

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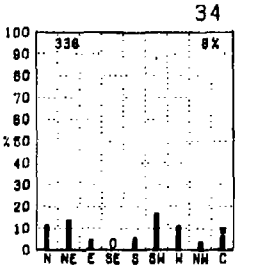

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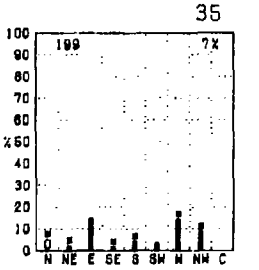

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INSUFFICIENT DATA

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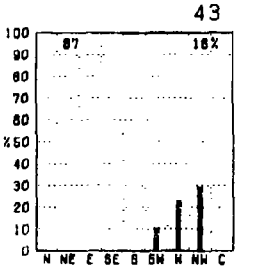

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INSUFFICIENT DATA

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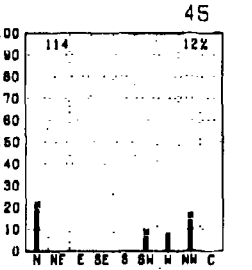
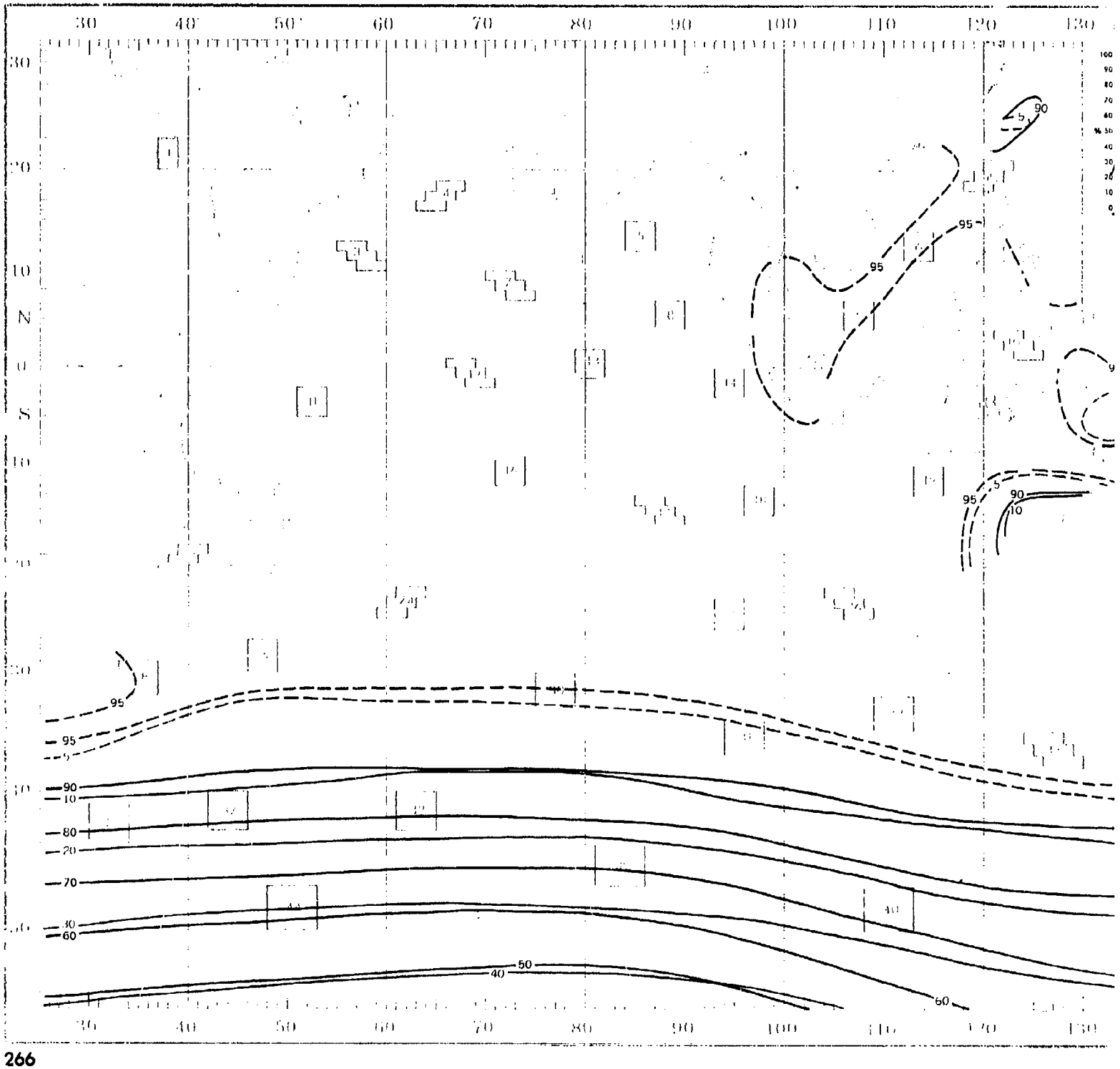


compilation of available data for specified areas without regard to suspected biases.
e page) are based on all available data subjectively adjusted where bias was evident.

OCTOBER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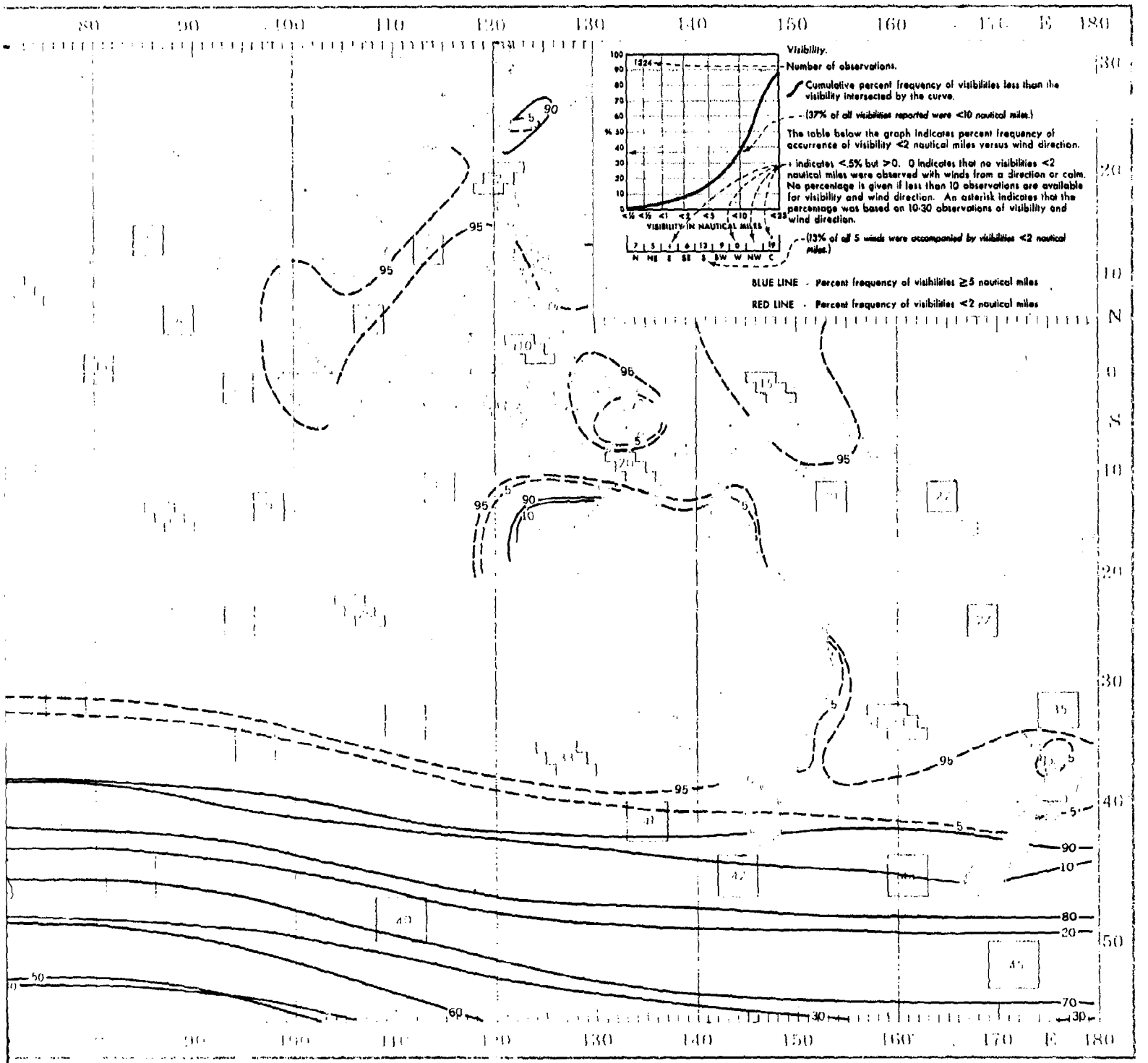
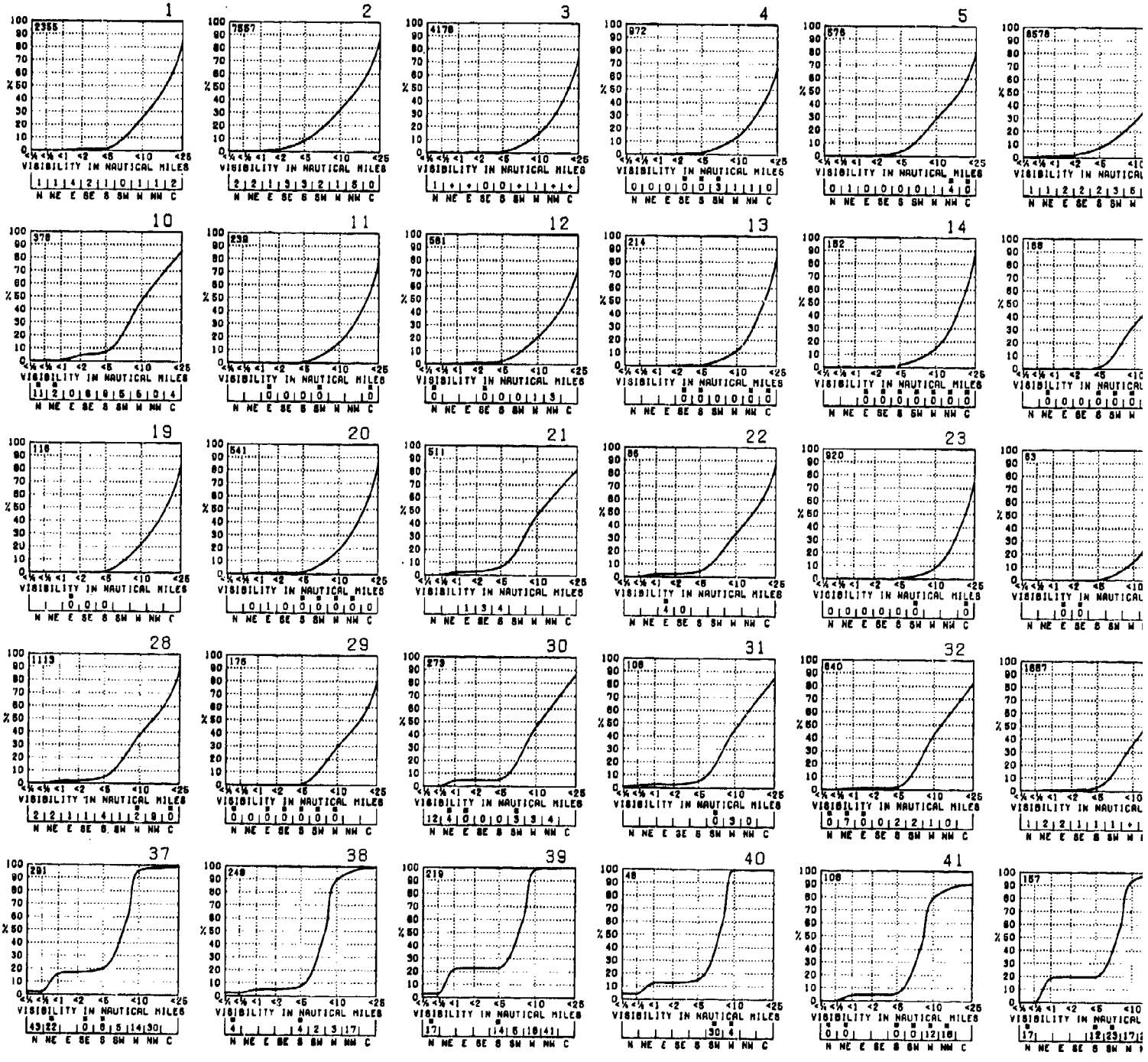
VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction.
indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all 5 winds were accompanied by visibilities <2 nautical miles.)
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles

VISIBILITY



Graphs represent the objective compilation of available data for specified areas witho
The isopleth analyses (opposite page) are based on all available data subjectively adj

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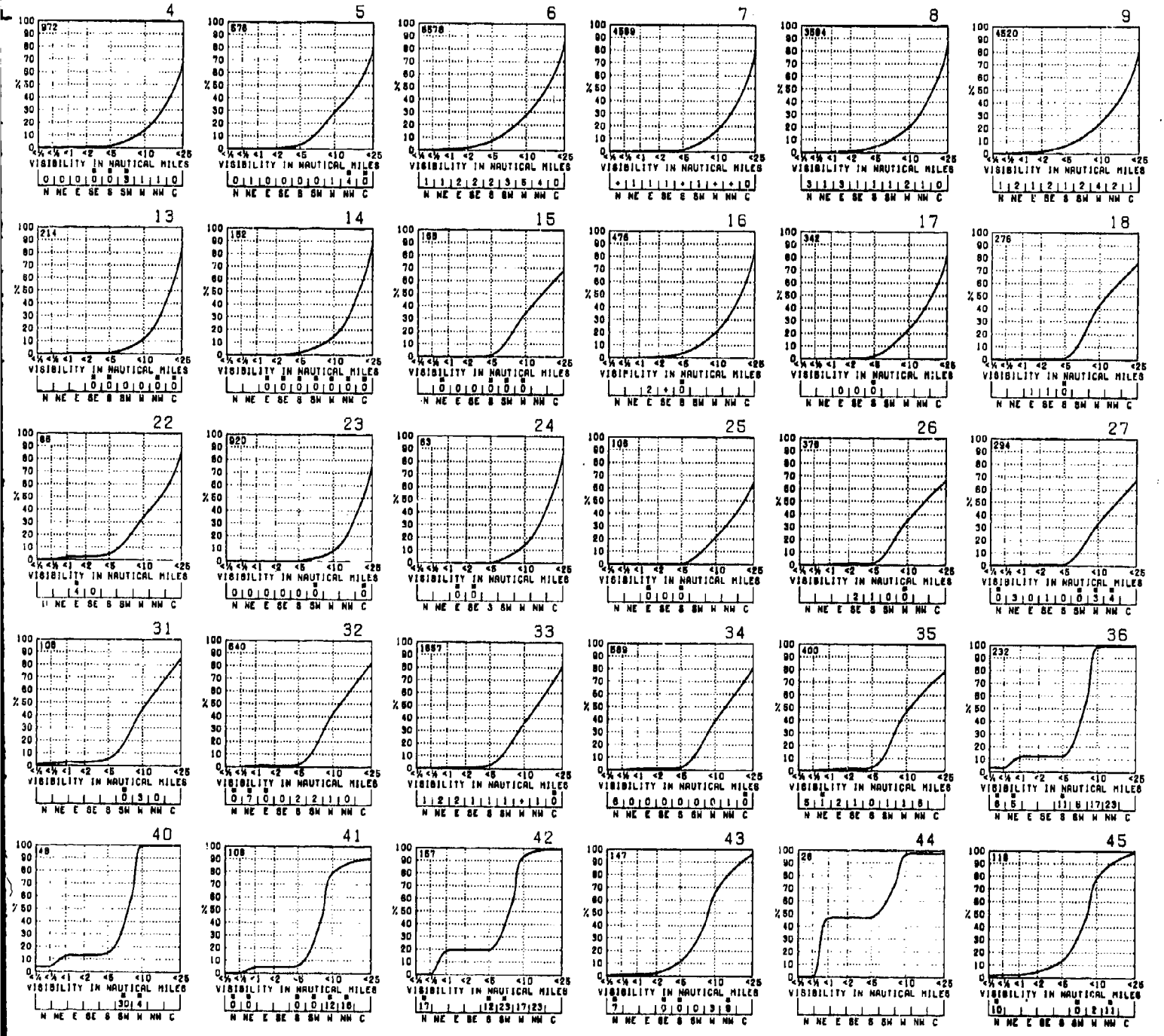

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

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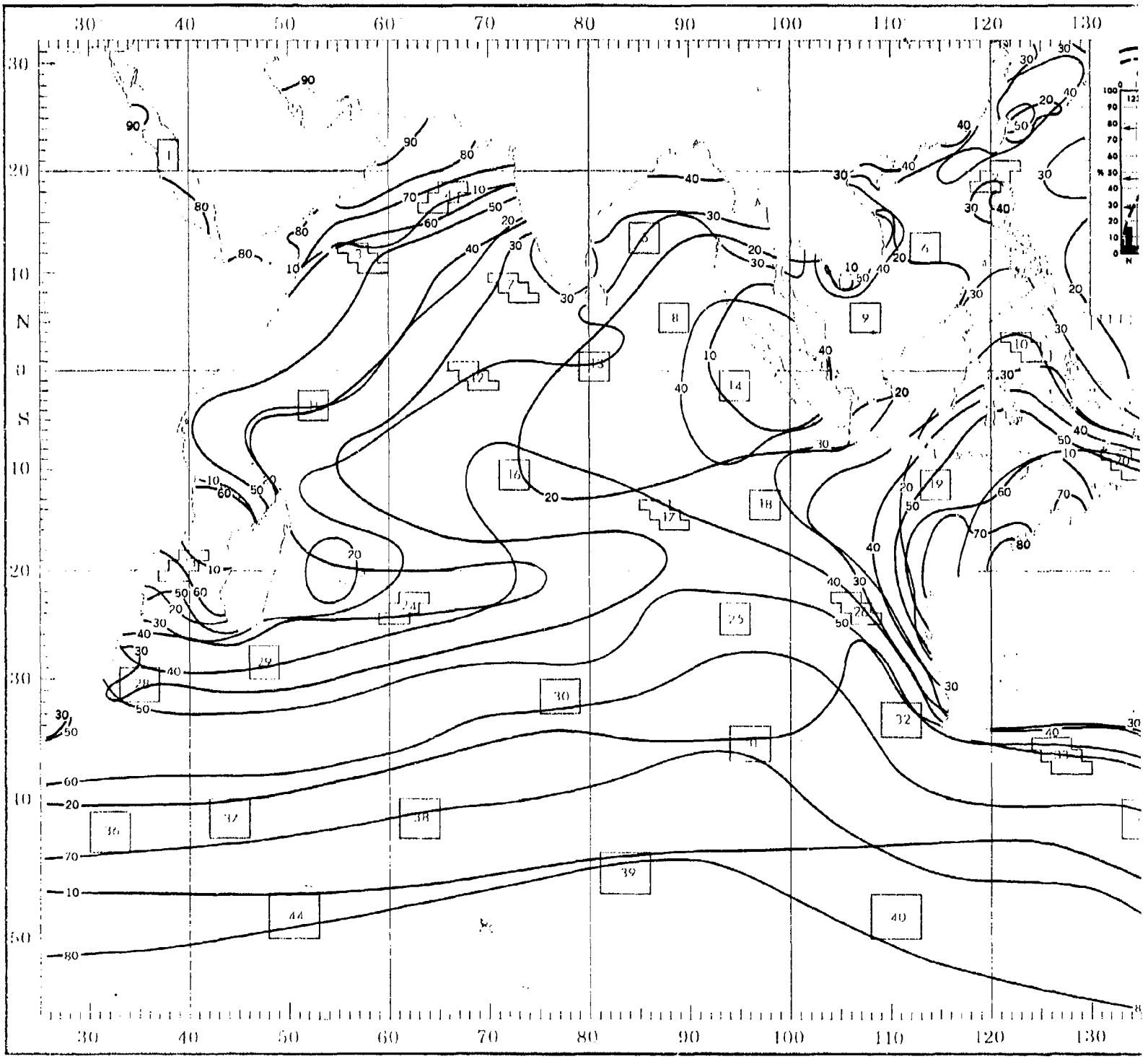
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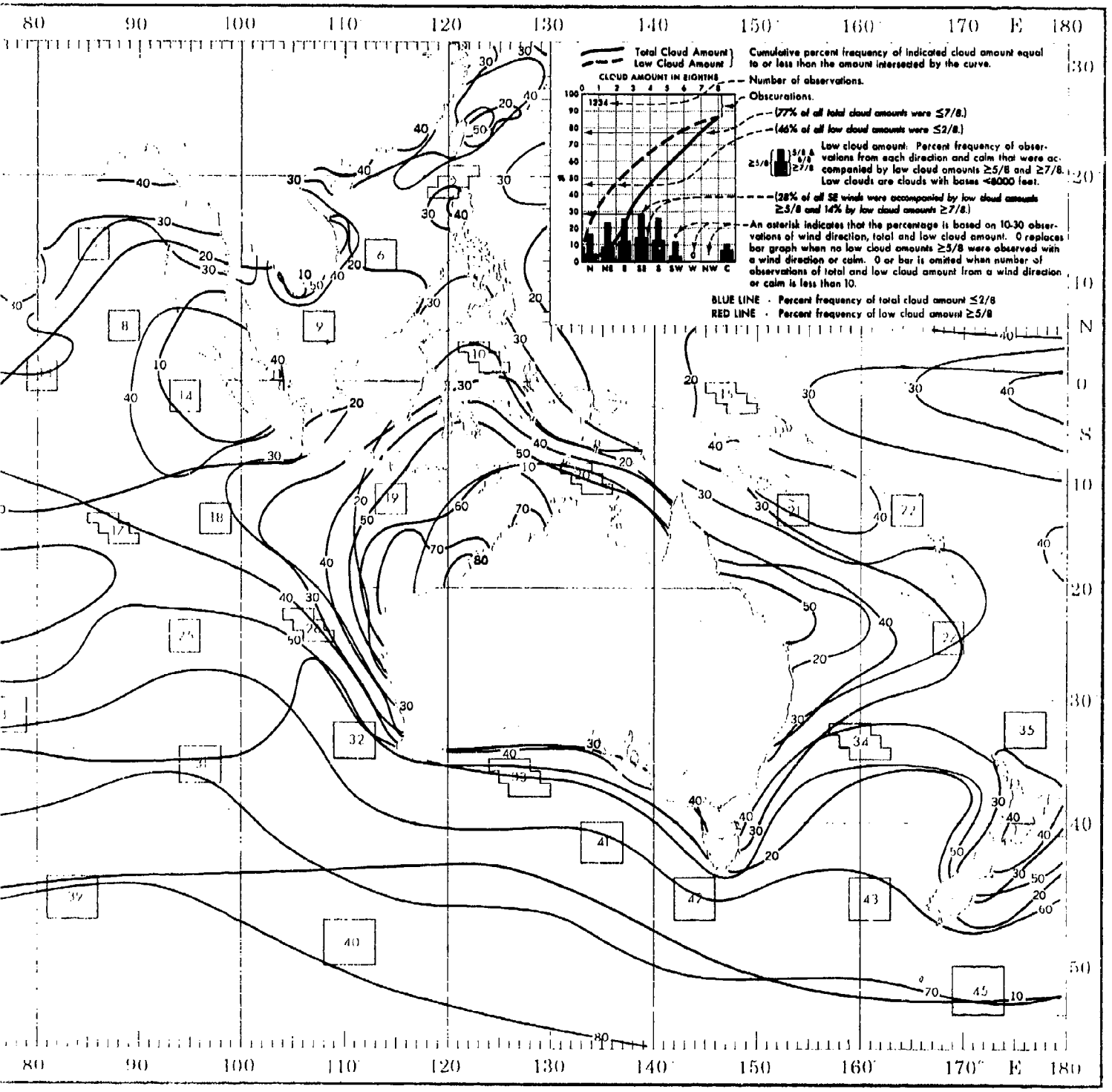
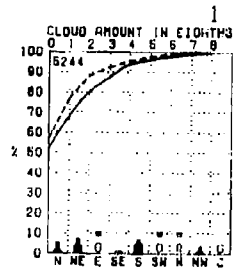
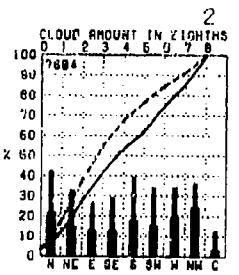
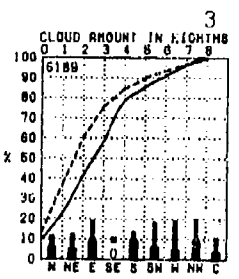
CLOUD COVER

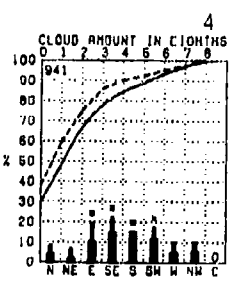

Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
1934
Number of observations.
Obscurations.
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
≥5/8
5/8 & 6/8
≥7/8
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8. Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount. 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C
80 90 100 110 120 130 140 150 160 170 E 180
30 20 10 0 10 20 30 40 50 60

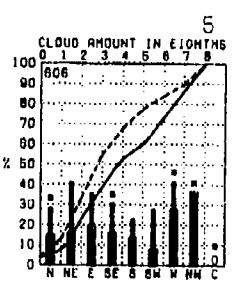
CLOUD COVER

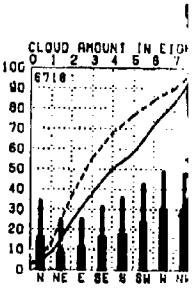


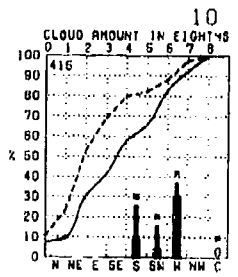


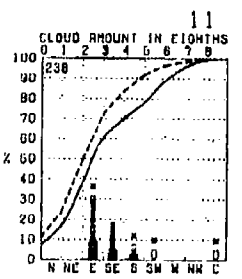


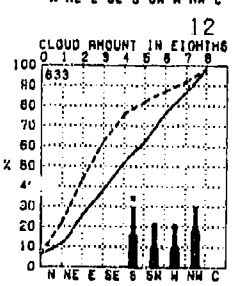


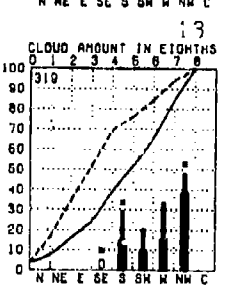


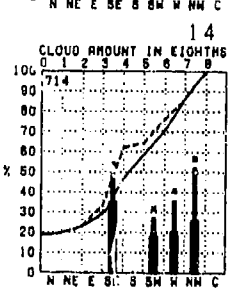


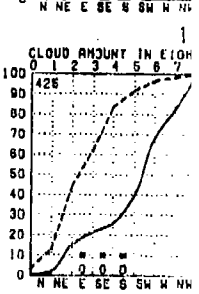


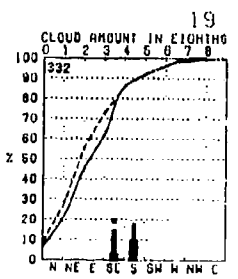


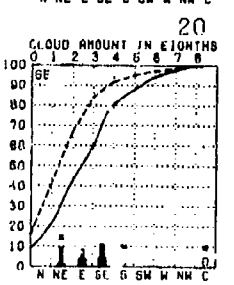


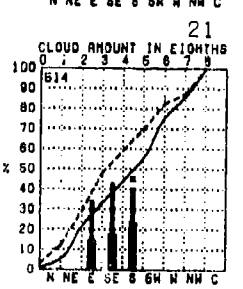


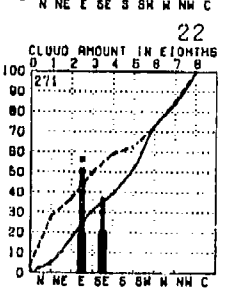


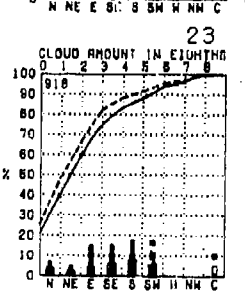


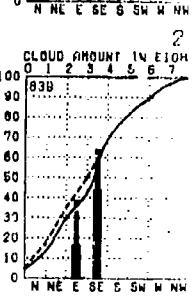


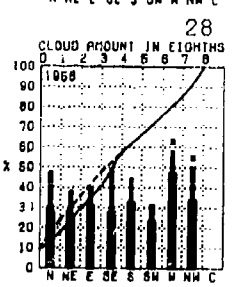


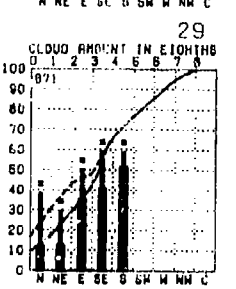


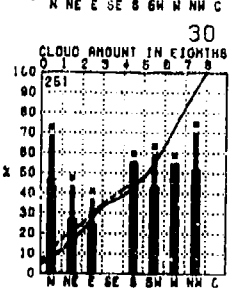


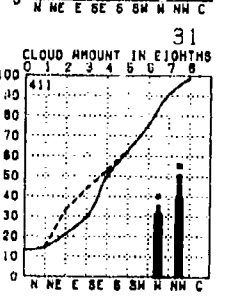


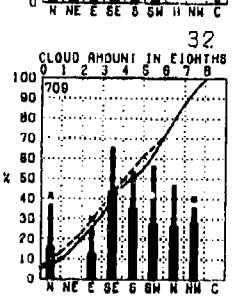


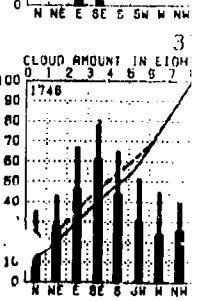


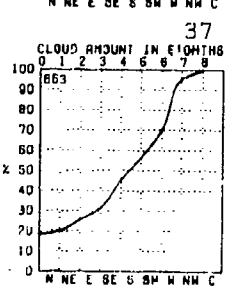


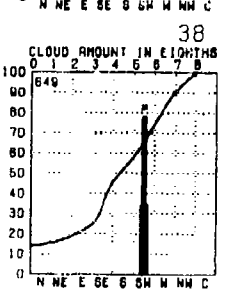


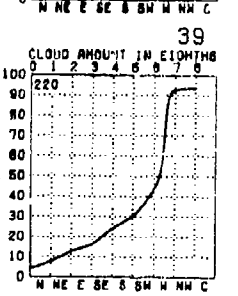


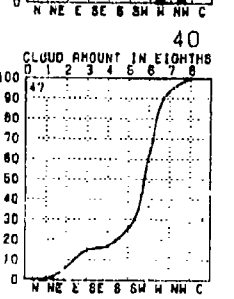


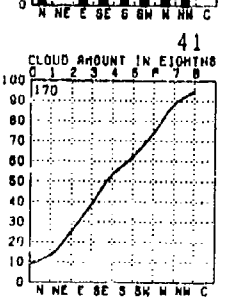


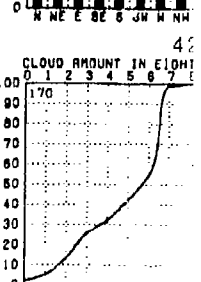












Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

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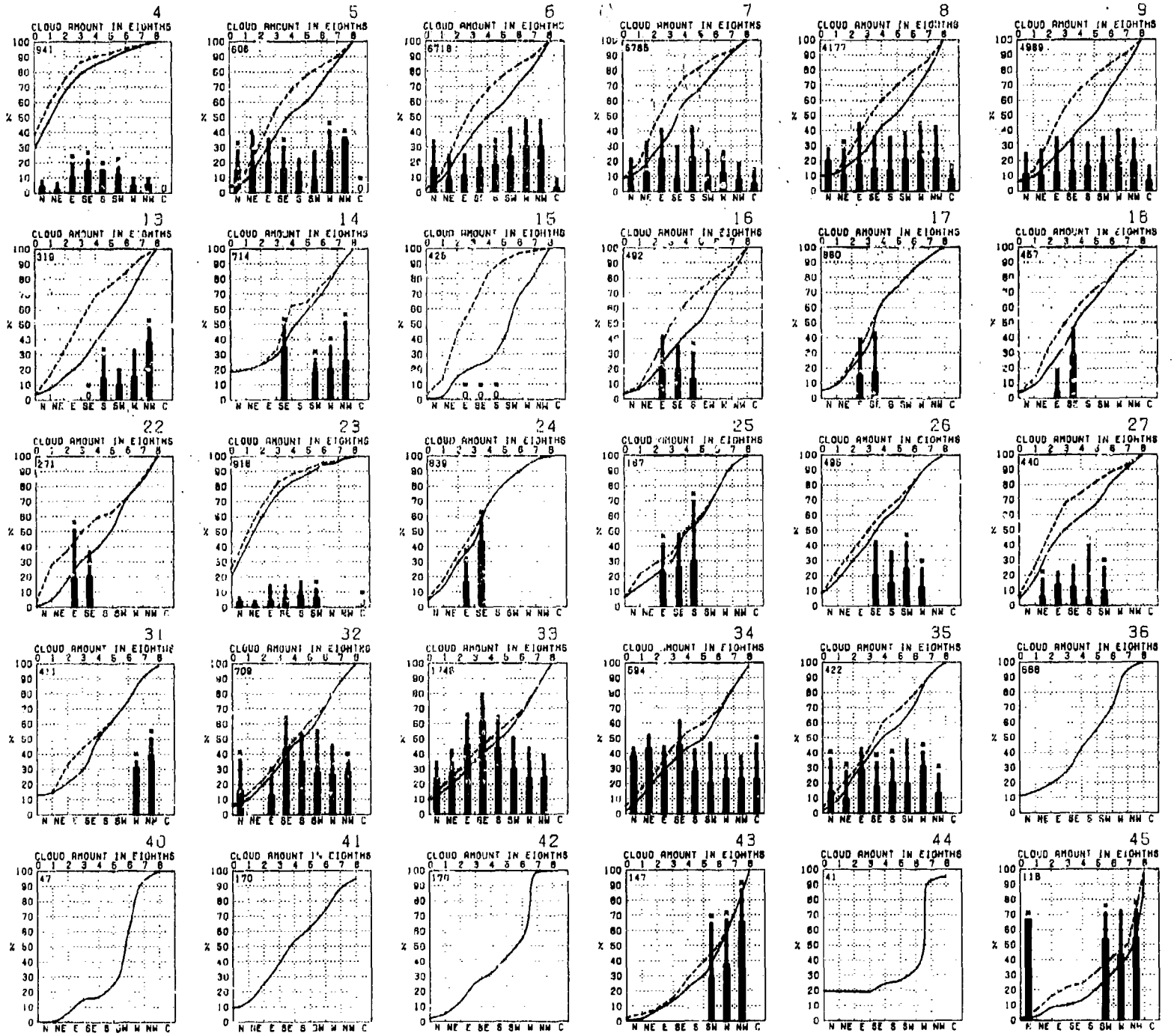
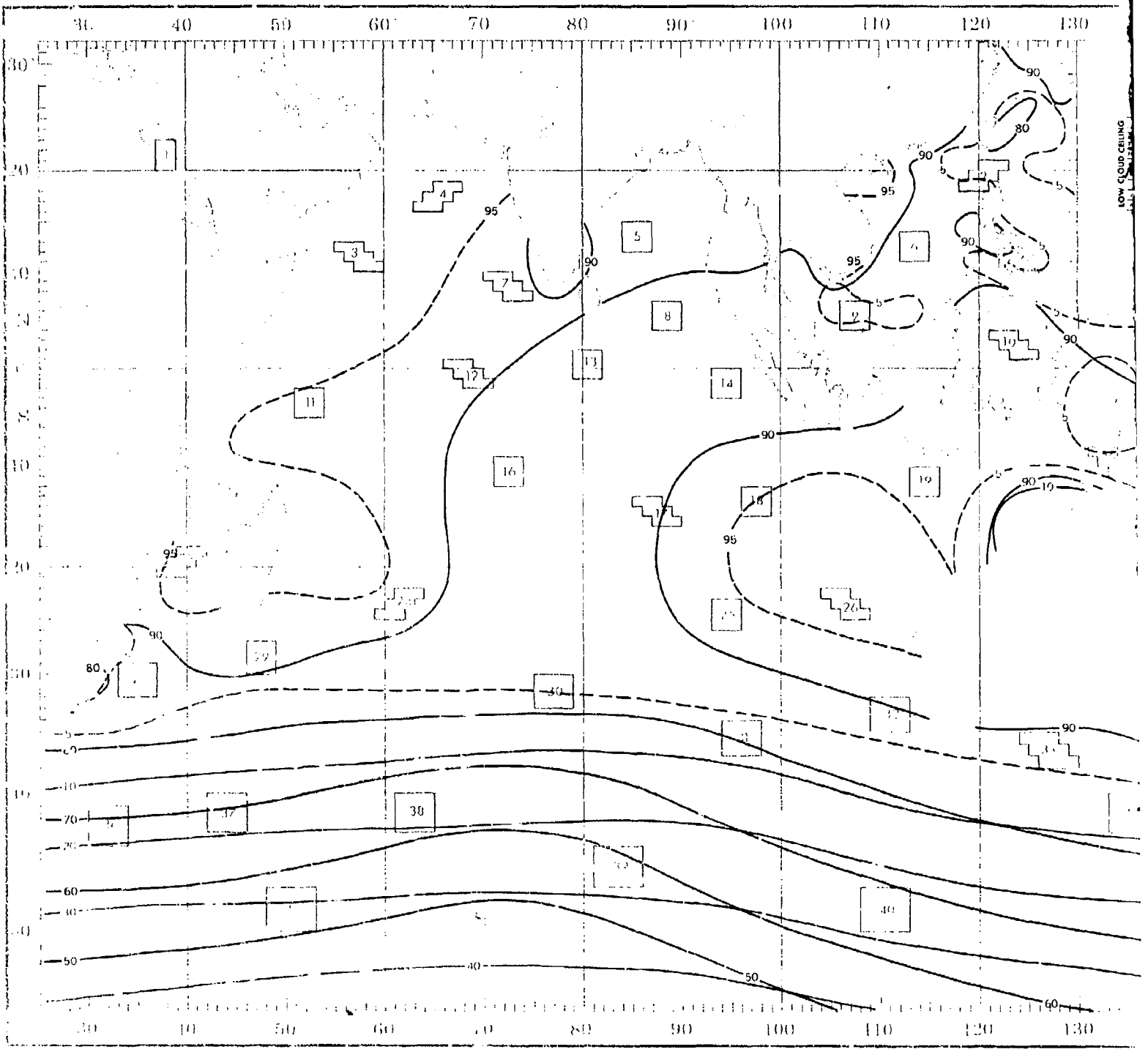
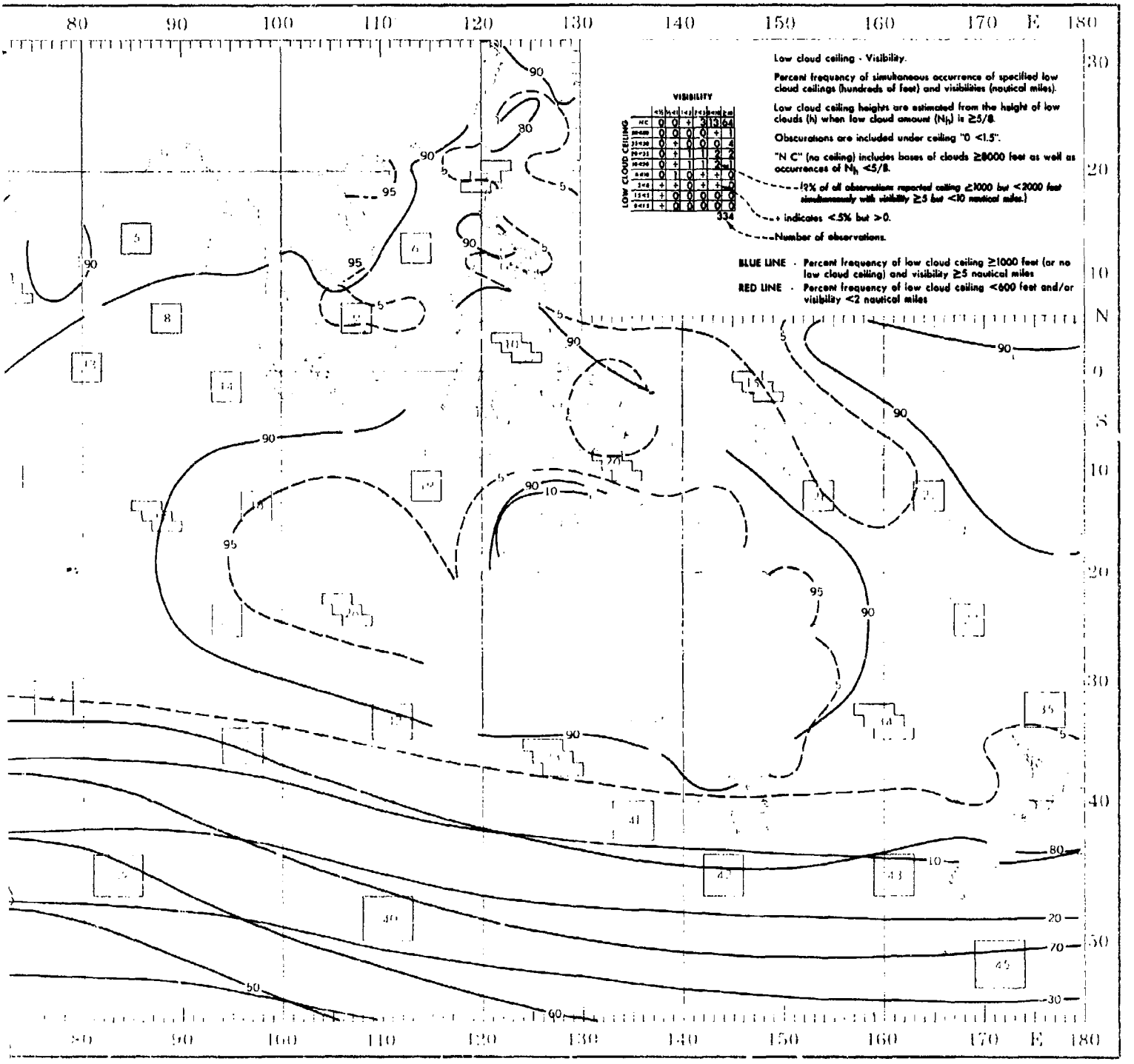


jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

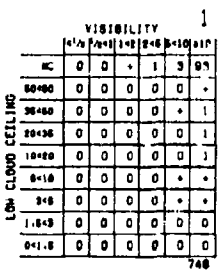
OCTOBER

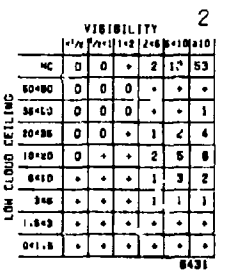


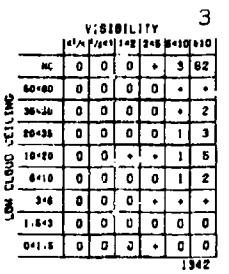
CEILING AND VISIBILITY

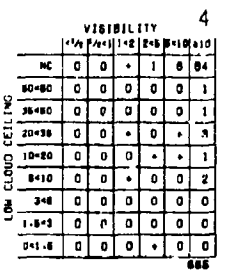


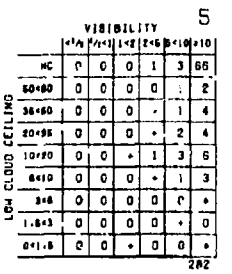
CEILING AND VISIBILITY

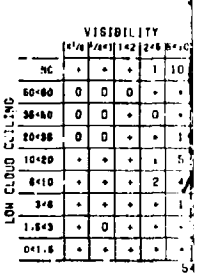


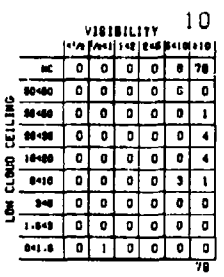


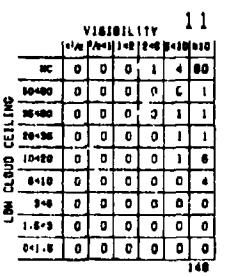


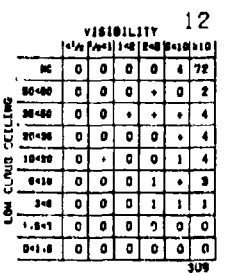


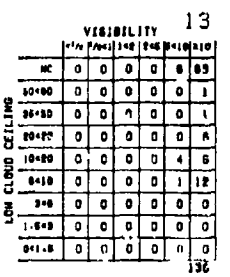


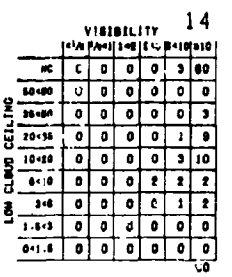


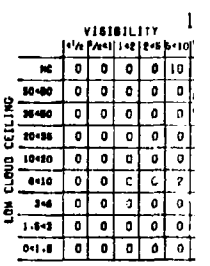


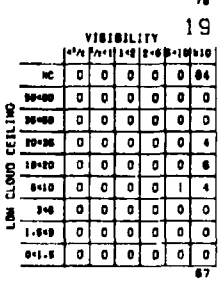


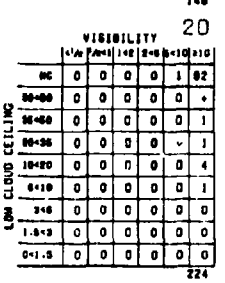


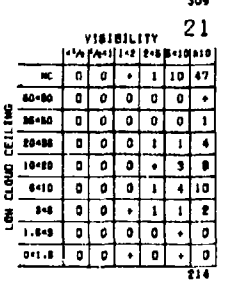


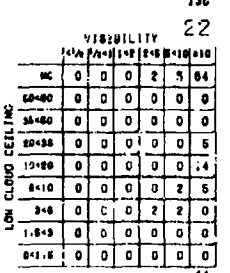


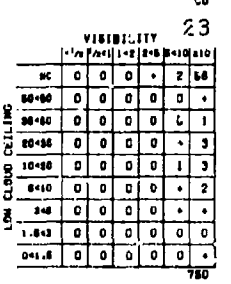


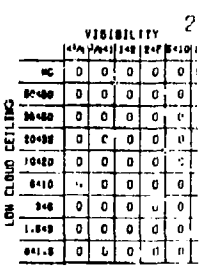


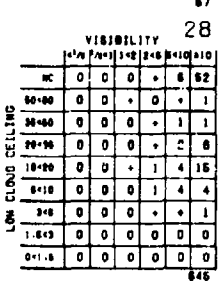


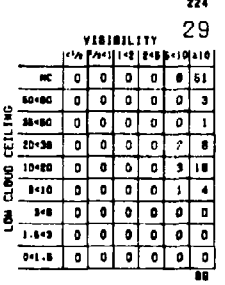


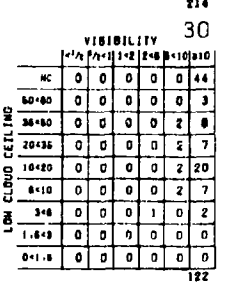


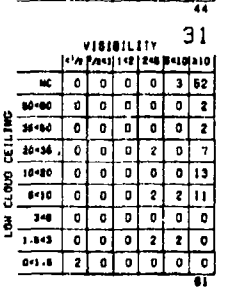


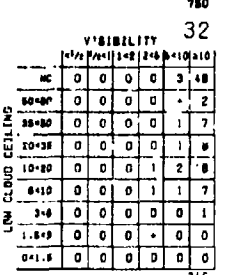


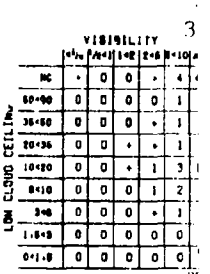




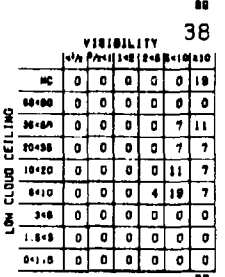








37



39

40

41

4

INSUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

OCTOBER

4

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	1	8	84
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	1
20+35	0	0	+	0	+	3
10+20	0	0	0	+	+	1
5+10	0	0	+	0	0	+
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	0	0

665

5

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	66
50+80	0	0	0	0	1	2
35+50	0	0	0	+	1	4
20+35	0	0	0	+	2	4
10+20	0	0	+	1	3	6
5+10	0	0	0	+	1	3
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	+	0
0+1.5	0	0	+	0	0	+

282

6

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	+	1	10	55
50+80	0	0	0	+	+	+
35+50	0	0	+	0	+	1
20+35	0	0	+	+	1	3
10+20	+	+	+	1	6	7
5+10	+	+	+	2	4	6
3+5	+	+	+	+	1	+
1.5+3	+	0	+	+	+	+
0+1.5	+	+	+	+	+	+

5487

7

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	3	72
50+80	0	0	0	0	+	1
35+50	0	0	0	0	+	2
20+35	0	0	0	+	1	4
10+20	0	0	+	+	2	7
5+10	0	0	0	+	1	4
3+5	0	0	0	+	+	1
1.5+3	0	0	0	0	+	+
0+1.5	+	0	0	+	+	+

1414

8

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	5	55
50+80	0	0	0	+	+	1
35+50	0	0	0	+	+	2
20+35	0	0	0	+	2	6
10+20	0	0	+	1	3	11
5+10	0	0	+	1	3	6
3+5	0	0	+	+	1	1
1.5+3	0	0	+	+	+	0
0+1.5	+	+	+	1	0	+

1477

9

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	+	+	+	1	8	59
50+80	0	0	0	0	+	1
35+50	0	0	0	0	+	1
20+35	0	0	+	1	1	4
10+20	0	+	+	1	4	7
5+10	+	+	+	1	3	4
3+5	0	0	0	+	1	1
1.5+3	0	0	+	+	+	+
0+1.5	+	+	+	+	+	+

2477

13

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	6	69
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	1
20+35	0	0	0	0	0	8
10+20	0	0	0	0	4	8
5+10	0	0	0	0	1	12
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

136

14

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	60
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	3
20+35	0	0	0	0	1	8
10+20	0	0	0	0	3	10
5+10	0	0	0	0	2	2
3+5	0	0	0	0	1	2
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

80

15

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	10	71
50+80	0	0	0	0	0	2
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	4
10+20	0	0	0	0	0	2
5+10	0	0	0	0	2	8
3+5	0	0	0	0	0	4
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

61

16

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	66
50+80	0	0	0	0	0	1
35+50	0	0	0	0	+	2
20+35	0	0	0	+	1	5
10+20	0	0	0	0	2	12
5+10	0	0	0	1	2	6
3+5	0	0	1	1	1	1
1.5+3	0	0	0	+	0	0
0+1.5	0	0	0	+	0	0

328

17

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	64
50+80	0	0	0	0	0	2
35+50	0	0	0	0	+	8
20+35	0	0	0	0	2	8
10+20	0	0	0	0	1	13
5+10	0	0	0	1	2	2
3+5	0	0	0	1	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

171

18

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	80
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	8
20+35	0	0	0	0	1	11
10+20	0	0	0	0	3	10
5+10	0	0	0	0	1	1
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	1
0+1.5	0	0	0	0	0	0

116

22

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	8	64
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	5
10+20	0	0	0	0	0	14
5+10	0	0	0	0	2	5
3+5	0	0	0	2	2	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

44

23

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	66
50+80	0	0	0	0	0	+
35+50	0	0	0	0	0	1
20+35	0	0	0	0	+	3
10+20	0	0	0	0	1	3
5+10	0	0	0	0	+	2
3+5	0	0	0	0	+	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

760

24

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	58
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	18
20+35	0	0	0	0	0	15
10+20	0	0	0	0	0	8
5+10	0	0	0	0	0	3
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

39

25

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	50
50+80	0	0	0	0	0	8
35+50	0	0	0	0	0	6
20+35	0	0	0	0	2	11
10+20	0	0	0	0	2	17
5+10	0	0	0	0	0	8
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

64

26

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	66
50+80	0	0	0	0	0	4
35+50	0	0	0	0	0	12
20+35	0	0	0	0	0	13
10+20	0	0	0	0	0	8
5+10	0	0	0	0	0	4
3+5	0	0	0	0	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

184

27

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	71
50+80	0	0	0	0	0	1
35+50	0	3	0	0	0	1
20+35	0	0	0	0	0	5
10+20	0	0	0	0	1	11
5+10	0	0	0	0	0	7
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

167

31

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	62
50+80	0	0	0	0	0	2
35+50	0	0	0	0	0	2
20+35	0	0	0	2	0	7
10+20	0	0	0	0	0	13
5+10	0	0	0	2	2	11
3+5	0	0	0	0	0	0
1.5+3	0	0	0	2	2	0
0+1.5	2	0	0	0	0	0

61

32

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	48
50+80	0	0	0	0	+	2
35+50	0	0	0	0	1	7
20+35	0	0	0	0	1	8
10+20	0	0	0	1	2	18
5+10	0	0	0	1	1	7
3+5	0	0	0	0	0	1
1.5+3	0	0	0	+	2	0
0+1.5	0	0	0	0	0	0

315

33

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	4	48
50+80	0	0	0	0	1	2
35+50	0	0	0	+	1	5
20+35	0	0	+	+	1	8
10+20	0	0	+	1	3	13
5+10	0	0	0	1	2	6
3+5	0	0	0	+	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

566

34

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	52
50+80	0	0	0	+	1	+
35+50	0	0	0	0	1	2
20+35	0	0	0	0	1	11
10+20	0	0	0	+	4	16
5+10	0	0	0	1	1	6
3+5	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	+	0	0	0	1	1

336

35

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	5	59
50+80	0	0	0	0	1	+
35+50	0	0	0	0	0	2
20+35	0	0	0	0	1	7
10+20	0	0	0	1	2	11
5+10	0	0	0	0	2	8
3+5	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	1	0	0	0	0	0

182

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

43

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	24
50+80	0	0	0	0	0	0
35+50	0	0	0	0	1	1
20+35	0	0	0	0	3	9
10+20	0	0	0	1	7	18
5+10	0	0	1	4	8	4
3+5	0	0	0	2	5	0
1.5+3	0	0	0	0	0	0
0+1.5	1	0	0	0	0	0

76

44

INSUFFICIENT DATA

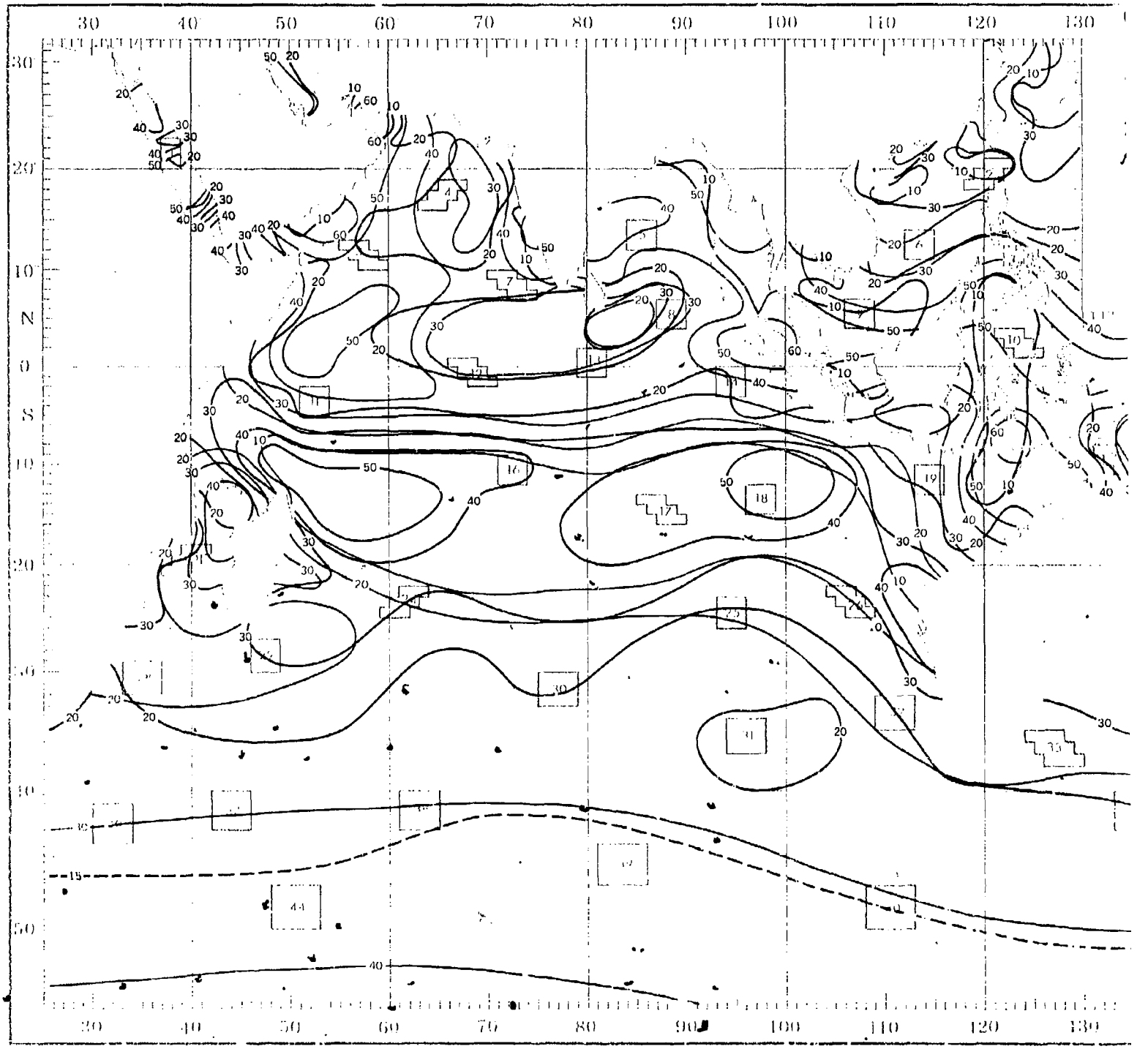
45

LOW CLOUD CEILING \ VISIBILITY	<1/4	1/4-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	23	8
50+80	0	0	0	0	0	0
35+50	0	0	0	0	1	5
20+35	0	0	0	0	22	7
10+20	0	0	2	5	12	3
5+10	1	0	0	0	2	1
3+5	0	0	0	2	0	0
1.5+3	0	0	0	0	0	0
0+1.5	2	0	0	1	0	0

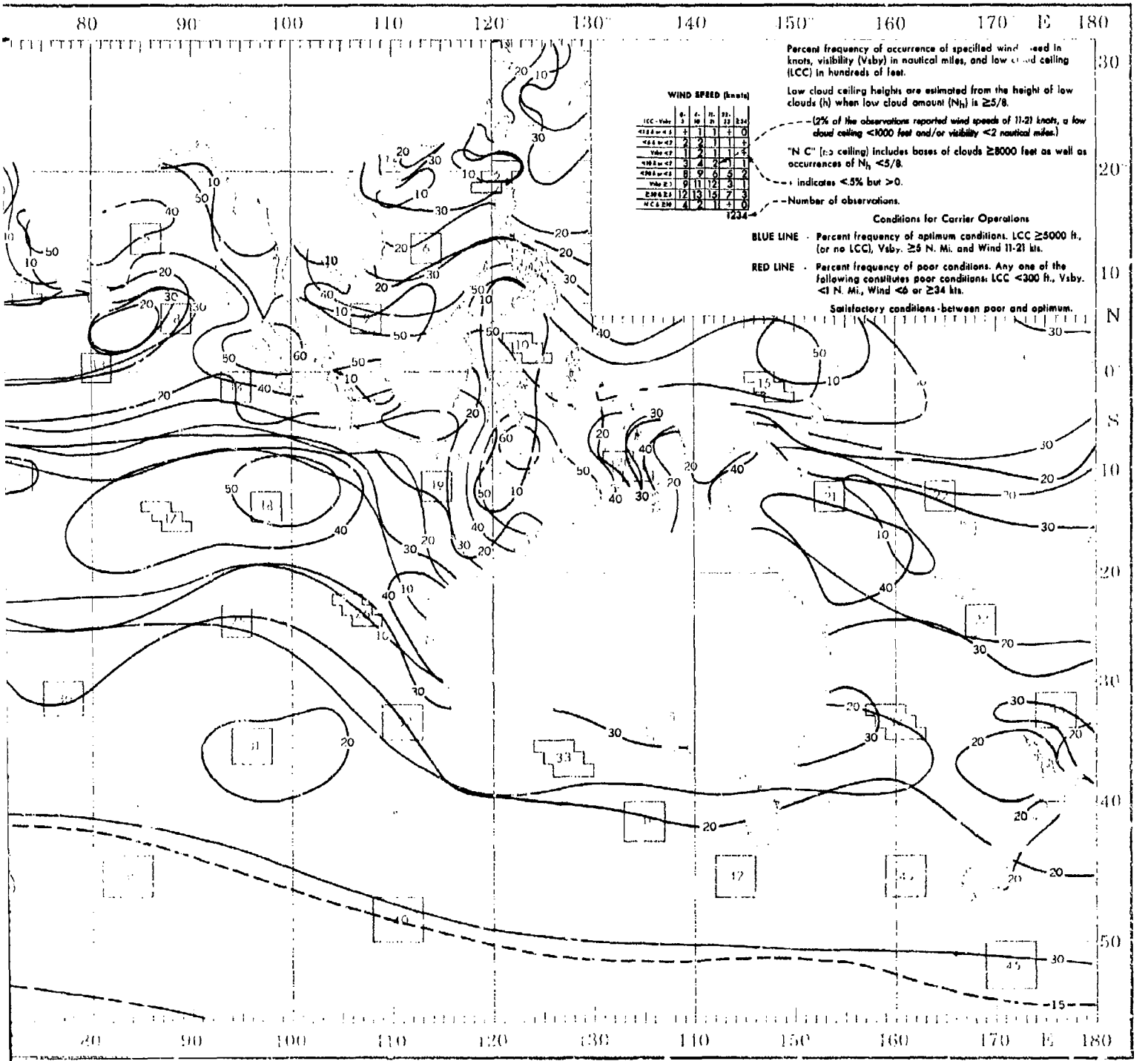
110

tive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

OCTOBER



WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	+	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	1	+	0
<20 & OR <5	1	1	1	0
VSBY ≥5	25	47	27	+
≥50 & ≥30	24	45	26	+
NC & ≥10	23	44	25	+

730

2

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+
<5 & OR <2	0	+	1	2
VSBY <2	0	+	1	1
<10 & OR <2	+	1	4	4
<20 & OR <5	+	3	11	11
VSBY ≥5	2	17	44	26
≥50 & ≥5	2	14	35	16
NC & ≥10	2	13	27	12

3

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0
<5 & OR <2	+	+	+	0
VSBY <2	0	+	0	0
<10 & OR <2	+	2	1	0
<20 & OR <5	1	4	4	+
VSBY ≥5	21	57	21	1
≥50 & ≥5	19	51	16	+
NC & ≥10	18	49	16	+

1277

4

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0
<5 & OR <2	0	+	+	0
VSBY <2	0	+	0	0
<10 & OR <2	+	1	1	+
<20 & OR <5	+	9	1	+
VSBY ≥5	14	68	26	1
≥50 & ≥5	13	55	22	1
NC & ≥10	12	50	21	1

852

5

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0
<5 & OR <2	0	+	1	+
VSBY <2	0	0	+	0
<10 & OR <2	+	3	2	1
<20 & OR <5	1	9	6	2
VSBY ≥5	15	54	22	4
≥50 & ≥5	13	43	15	1
NC & ≥10	12	38	14	1

279

WIND SPEED (KNOT

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	+	+	1	+
<5 & OR <2	+	1	2	1
VSBY <2	+	1	1	+
<10 & OR <2	+	4	7	2
<20 & OR <5	1	9	14	3
VSBY ≥5	9	42	37	4
≥50 & ≥5	8	34	24	1
NC & ≥10	7	29	20	1

5

10

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0
<5 & OR <2	0	0	1	0
VSBY <2	0	0	1	0
<10 & OR <2	0	3	3	0
<20 & OR <5	1	4	4	0
VSBY ≥5	36	50	13	0
≥50 & ≥5	35	42	9	0
NC & ≥10	29	41	8	0

78

11

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	1	3	1	0
<20 & OR <5	2	5	4	1
VSBY ≥5	20	61	16	2
≥50 & ≥5	19	64	11	1
NC & ≥10	16	59	10	1

148

12

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	1	2	0
VSBY <2	0	0	1	0
<10 & OR <2	+	2	5	0
<20 & OR <5	1	6	7	1
VSBY ≥5	5	57	33	1
≥50 & ≥5	5	47	25	1
NC & ≥10	5	43	23	1

298

13

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	1	8	4	1
<20 & OR <5	2	12	9	1
VSBY ≥5	13	55	32	1
≥50 & ≥5	9	41	21	0
NC & ≥10	9	37	17	0

133

14

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	3	0
VSBY <2	0	0	0	0
<10 & OR <2	0	4	8	0
<20 & OR <5	0	13	10	0
VSBY ≥5	11	50	27	0
≥50 & ≥5	10	38	16	0
NC & ≥10	10	35	16	0

82

15

WIND SPEED (KNOT

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	4	6	0
VSBY <2	0	0	0	0
<10 & OR <2	0	10	2	0
<20 & OR <5	2	10	2	0
VSBY ≥5	10	73	18	0
≥50 & ≥5	8	69	18	0
NC & ≥10	8	69	10	0

19

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	3	3	0
<20 & OR <5	1	6	4	0
VSBY ≥5	7	72	21	0
≥50 & ≥5	8	61	16	0
NC & ≥10	0	61	16	0

67

20

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	0	1	0
<20 & OR <5	0	1	3	0
VSBY ≥5	18	60	34	+
≥50 & ≥5	15	48	29	+
NC & ≥10	15	47	29	+

216

21

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0
<5 & OR <2	0	1	4	1
VSBY <2	0	0	1	0
<10 & OR <2	0	4	16	2
<20 & OR <5	0	8	24	4
VSBY ≥5	1	32	53	7
≥50 & ≥5	1	24	29	3
NC & ≥10	1	21	25	1

219

22

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	2	0	7	2
<20 & OR <5	2	2	18	5
VSBY ≥5	7	38	48	5
≥50 & ≥5	5	32	32	0
NC & ≥10	5	30	30	0

44

23

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0
<5 & OR <2	0	+	1	+
VSBY <2	0	0	0	0
<10 & OR <2	0	1	1	1
<20 & OR <5	+	3	3	1
VSBY ≥5	11	60	34	5
≥50 & ≥5	10	46	28	4
NC & ≥10	9	45	28	4

748

24

WIND SPEED (KNOTS

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	0	3	0
<20 & OR <5	3	0	8	0
VSBY ≥5	6	32	53	11
≥50 & ≥5	3	26	24	3
NC & ≥10	3	26	24	3

3

26

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	1	+	+
VSBY <2	0	+	0	+
<10 & OR <2	+	4	4	2
<20 & OR <5	1	9	18	5
VSBY ≥5	9	33	46	13
≥50 & ≥5	2	22	27	7
NC & ≥10	2	20	24	5

840

29

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	1	2	0
<20 & OR <5	0	3	17	4
VSBY ≥5	6	27	51	15
≥50 & ≥5	6	21	26	9
NC & ≥10	4	19	21	9

85

30

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	2	0
VSBY <2	0	0	0	0
<10 & OR <2	1	4	7	0
<20 & OR <5	2	14	18	0
VSBY ≥5	7	44	45	3
≥50 & ≥5	5	20	21	2
NC & ≥10	5	17	21	2

121

31

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0
<5 & OR <2	0	5	0	0
VSBY <2	0	2	0	0
<10 & OR <2	2	11	7	0
<20 & OR <5	3	21	10	0
VSBY ≥5	7	41	38	7
≥50 & ≥5	2	20	28	7
NC & ≥10	2	20	21	7

81

32

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	+	0	+	0
VSBY <2	0	0	0	0
<10 & OR <2	1	1	8	1
<20 & OR <5	1	10	13	4
VSBY ≥5	4	34	42	16
≥50 & ≥5	2	19	22	9
NC & ≥10	2	17	20	7

314

33

WIND SPEED (KNOTS

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0
<5 & OR <2	+	1	1	1
VSBY <2	0	+	0	+
<10 & OR <2	+	4	6	2
<20 & OR <5	1	9	13	8
VSBY ≥5	3	32	43	16
≥50 & ≥5	2	19	24	8
NC & ≥10	2	16	21	7

37

INSUFFICIENT DATA

38

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	0	4	11	11
<20 & OR <5	0	11	19	15
VSBY ≥5	0	13	48	26
≥50 & ≥5	0	3	11	4
NC & ≥10	0	4	11	4

27

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-9	10-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0
<5 & OR <2	0	7	7	0
VSBY <2	0	0	0	0
<10 & OR <2	0	21	16	0
<20 & OR <5	0	21	39	0
VSBY ≥5	0	45	60	0
≥50 & ≥5	0	21	21	0
NC & ≥10	0	21	21	0

19

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjust

ITY-WIND

OCTOBER

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	+	0	0
VSBY <2	0	+	0	0	0
<10 & OR <2	+	1	1	+	0
<20 & OR <5	+	3	1	+	0
VSBY ≥5	14	58	25	1	0
≥60 & ≥5	13	55	22	1	0
NC & ≥10	12	50	21	1	0

662

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	0
<6 & OR <2	0	+	1	+	+
VSBY <2	0	0	+	0	+
<10 & OR <2	+	3	2	1	+
<20 & OR <5	1	9	6	2	+
VSBY ≥5	15	54	22	4	+
≥60 & ≥5	13	49	15	1	0
NC & ≥10	12	38	14	1	0

279

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	+	+	1	+	+
<6 & OR <2	+	1	2	1	+
VSBY <2	+	1	1	+	+
<10 & OR <2	+	4	7	2	+
<20 & OR <5	1	8	14	3	+
VSBY ≥5	9	42	37	4	+
≥60 & ≥5	8	34	24	1	+
NC & ≥10	7	29	20	1	0

5440

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	0
<6 & OR <2	0	1	1	+	0
VSBY <2	0	+	+	0	0
<10 & OR <2	1	4	3	+	0
<20 & OR <5	2	8	6	1	0
VSBY ≥5	16	56	26	2	0
≥60 & ≥5	14	44	18	1	0
NC & ≥10	13	42	17	1	0

1378

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	0
<6 & OR <2	+	2	2	1	0
VSBY <2	+	+	+	+	0
<10 & OR <2	1	5	7	2	+
<20 & OR <5	2	11	14	3	+
VSBY ≥5	10	42	39	4	+
≥60 & ≥5	8	29	22	2	0
NC & ≥10	8	27	19	1	0

1470

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	+
<6 & OR <2	1	1	2	+	+
VSBY <2	+	+	1	+	+
<10 & OR <2	2	6	4	+	+
<20 & OR <5	3	14	8	+	+
VSBY ≥5	18	56	19	1	0
≥60 & ≥5	16	39	12	+	0
NC & ≥10	14	34	10	+	0

2433

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	8	4	1	0
<20 & OR <5	2	12	9	1	0
VSBY ≥5	13	55	32	1	0
≥60 & ≥5	9	41	21	0	0
NC & ≥10	9	37	17	0	0

193

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	3	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	8	0	0
<20 & OR <5	0	13	10	0	0
VSBY ≥5	11	60	27	0	0
≥60 & ≥5	10	38	16	0	0
NC & ≥10	10	35	16	0	0

89

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	4	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	10	2	0	0
<20 & OR <5	2	10	2	0	0
VSBY ≥5	10	73	16	0	0
≥60 & ≥5	8	59	16	0	0
NC & ≥10	8	53	10	0	0

61

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	+	0
<6 & OR <2	0	0	3	1	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	1	8	3	+
<20 & OR <5	0	3	17	8	1
VSBY ≥5	+	19	67	10	1
≥60 & ≥5	+	14	48	4	0
NC & ≥10	+	13	42	3	0

326

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	5	1	0
<20 & OR <5	0	2	18	4	0
VSBY ≥5	1	16	68	16	0
≥60 & ≥5	1	11	38	9	0
NC & ≥10	1	10	35	8	0

170

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	1	2	0
<20 & OR <5	0	2	10	6	0
VSBY ≥5	1	14	71	13	0
≥60 & ≥5	1	10	46	7	0
NC & ≥10	1	10	43	6	0

115

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	0	7	2	0
<20 & OR <5	2	2	18	6	0
VSBY ≥5	7	32	48	5	0
≥60 & ≥5	6	32	32	0	0
NC & ≥10	6	30	30	0	0

44

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	1	1	0
<20 & OR <5	+	3	3	1	0
VSBY ≥5	11	50	34	5	0
≥60 & ≥5	10	46	28	4	0
NC & ≥10	9	45	28	4	0

748

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	0	0
<20 & OR <5	3	0	8	0	0
VSBY ≥5	5	32	53	11	0
≥60 & ≥5	3	28	24	3	0
NC & ≥10	3	26	24	3	0

38

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	3	0	0
<20 & OR <5	0	10	14	3	0
VSBY ≥5	5	54	33	6	0
≥60 & ≥5	3	35	14	3	0
NC & ≥10	2	32	13	3	0

63

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	1	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	1	1	0
<20 & OR <5	1	7	5	1	0
VSBY ≥5	4	41	48	8	0
≥60 & ≥5	3	27	29	3	0
NC & ≥10	3	26	25	3	0

164

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	3	0
<20 & OR <5	1	8	8	4	0
VSBY ≥5	3	40	49	8	0
≥60 & ≥5	1	29	40	4	0
NC & ≥10	1	28	37	4	0

159

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<6 & OR <2	0	3	0	0	0
VSBY <2	0	2	0	0	0
<10 & OR <2	2	11	7	1	0
<20 & OR <5	3	21	10	0	0
VSBY ≥5	7	41	38	7	3
≥60 & ≥5	2	20	28	7	3
NC & ≥10	2	20	21	7	3

61

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	+	0	+	0	+
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	8	1	+
<20 & OR <5	1	10	19	4	1
VSBY ≥5	4	34	42	15	2
≥60 & ≥5	2	19	22	9	2
NC & ≥10	2	17	20	7	1

314

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	0	0
<6 & OR <2	+	1	+	1	+
VSBY <2	0	+	0	+	+
<10 & OR <2	+	4	5	2	1
<20 & OR <5	1	9	13	6	2
VSBY ≥5	3	32	43	16	4
≥60 & ≥5	2	19	24	8	2
NC & ≥10	2	18	21	7	1

952

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	0	0
<6 & OR <2	+	1	2	0	+
VSBY <2	0	+	0	0	0
<10 & OR <2	1	2	6	+	1
<20 & OR <5	3	8	17	2	1
VSBY ≥5	7	31	50	9	2
≥60 & ≥5	3	19	26	4	1
NC & ≥10	3	19	26	3	1

333

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	2	7	3	0
<20 & OR <5	1	11	11	4	0
VSBY ≥5	6	38	43	10	0
≥60 & ≥5	5	26	29	6	0
NC & ≥10	5	25	26	4	0

172

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	7	7	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	21	14	0	0
<20 & OR <5	0	21	36	0	0
VSBY ≥5	0	43	50	0	0
≥60 & ≥5	0	21	21	0	0
NC & ≥10	0	21	21	0	0

14

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	3	9	5	0
VSBY <2	0	0	3	0	0
<10 & OR <2	0	6	17	9	3
<20 & OR <5	0	13	26	16	5
VSBY ≥5	0	17	39	20	7
≥60 & ≥5	0	7	15	7	3
NC & ≥10	0	5	13	6	3

78

44

INSUFFICIENT DATA

45

WIND SPEED (KNOTS)

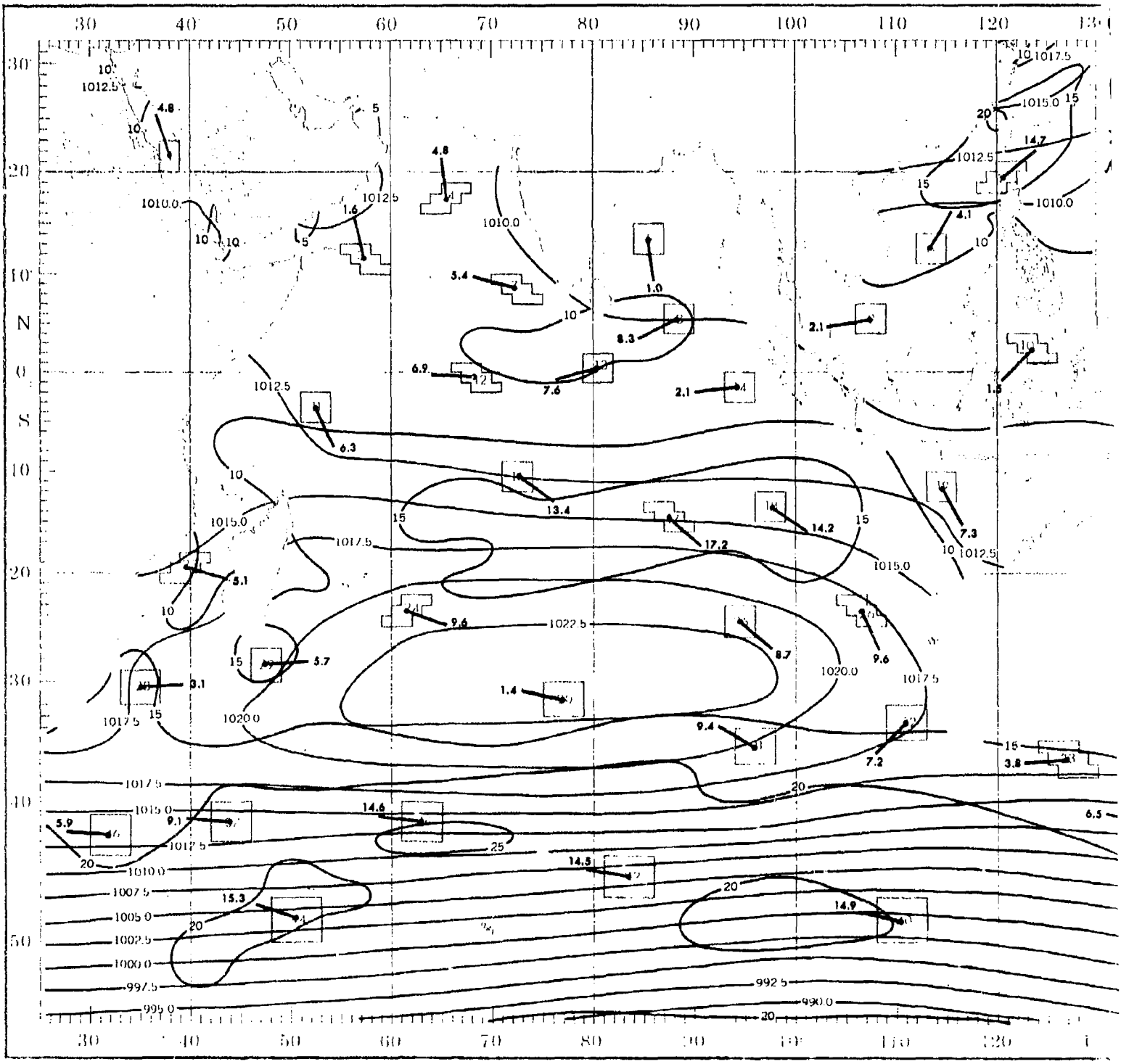
LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	2	1
<6 & OR <2	0	0	2	2	4
VSBY <2	0	0	1	1	4
<10 & OR <2	0	1	3	3	4
<20 & OR <5	0	3	12	17	4
VSBY ≥5	0	4	36	39	8
≥60 & ≥5	0	0	14	14	1
NC & ≥10	0	0	9	4	0

114

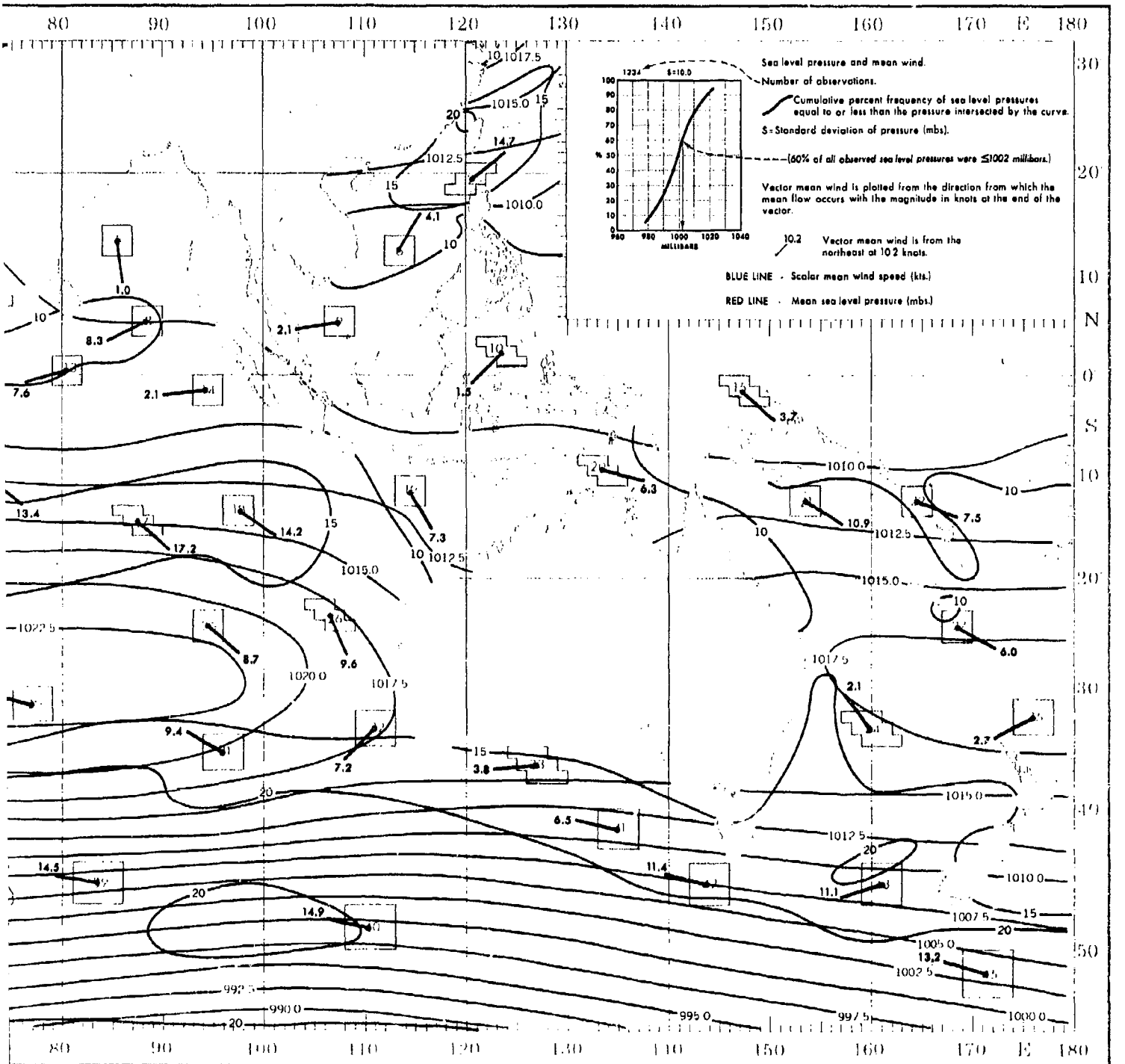
ctive compilation of available data for specified areas without regard to suspected biases.
osite page) are based on all available data subjectively adjusted where bias was evident.

OCTOBER

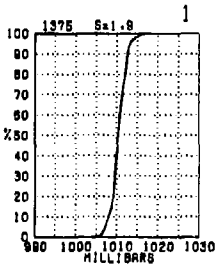
SEA LEVEL PR

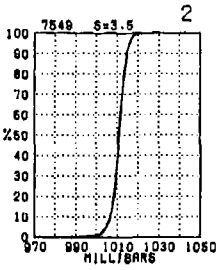


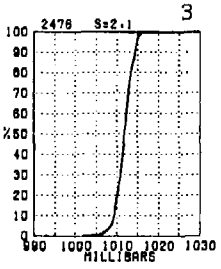
SEA LEVEL PRESSURE AND MEAN WIND

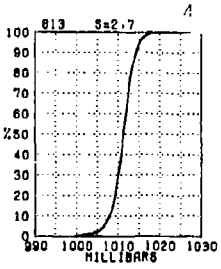


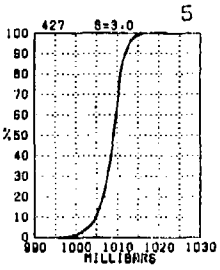
SEA LEVEL PRESSURE

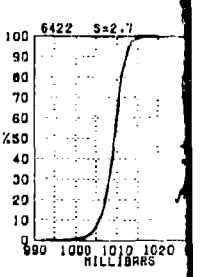


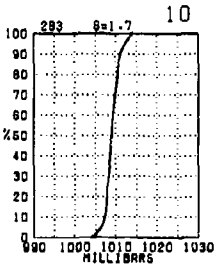


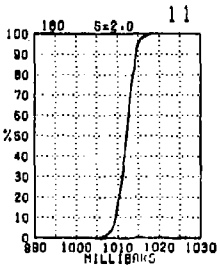


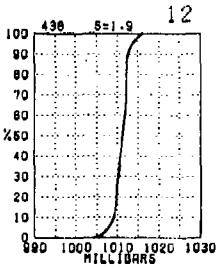


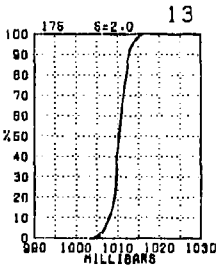


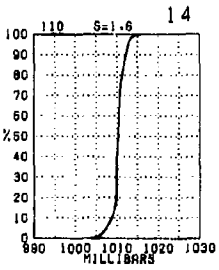


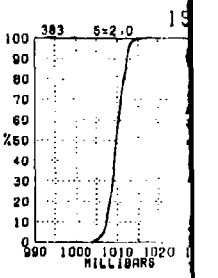


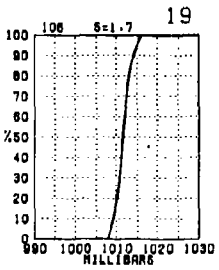


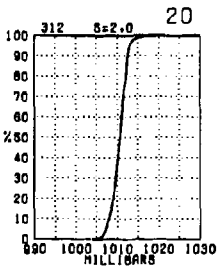


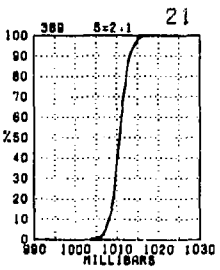


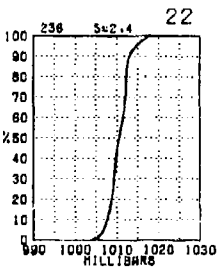


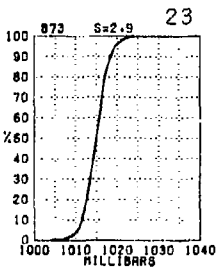


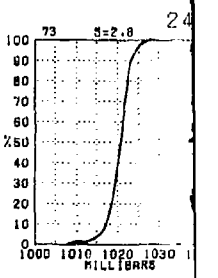


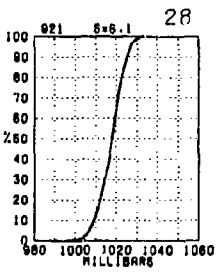


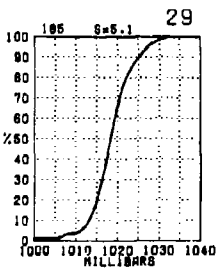


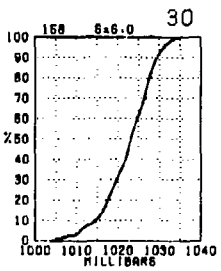


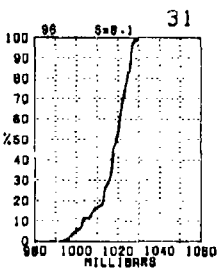


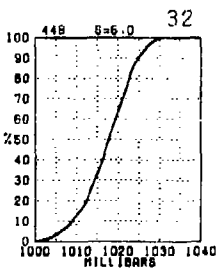


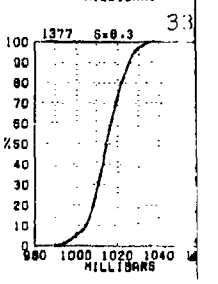


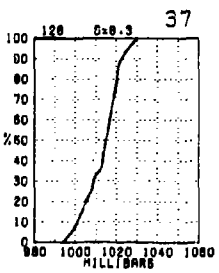


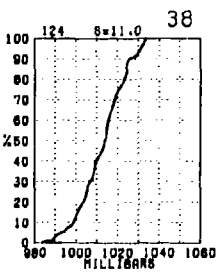


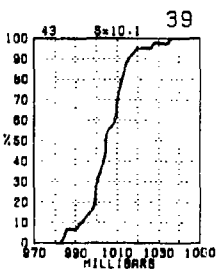






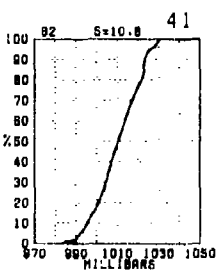






40

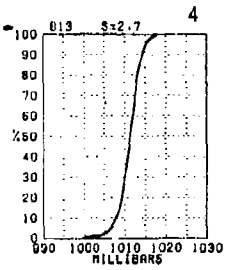
INSUFFICIENT DATA

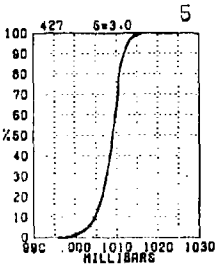


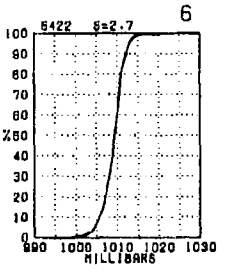
INSUFFICIENT DATA

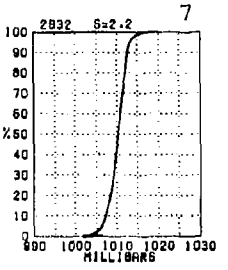
Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

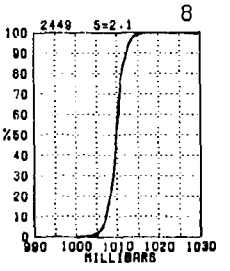
OCTOBER

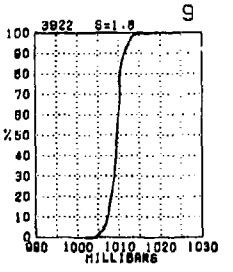


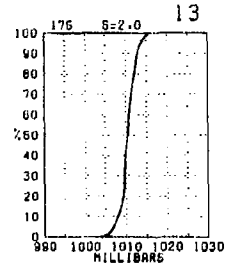


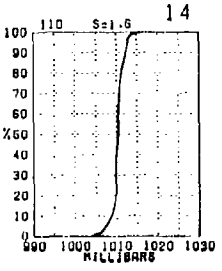


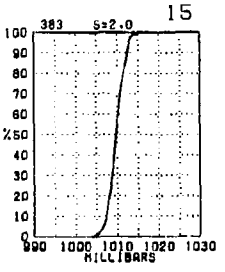


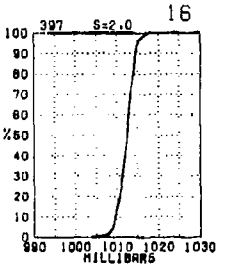


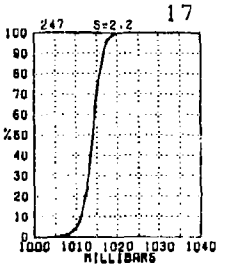


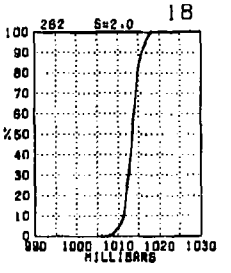


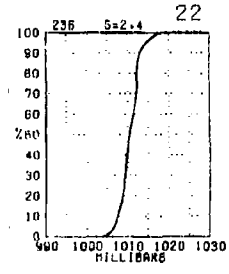


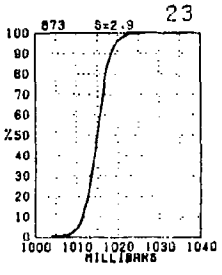


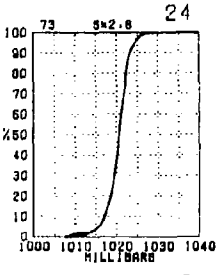


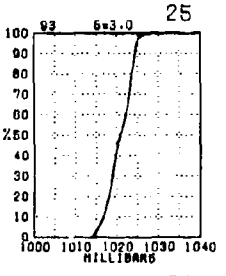


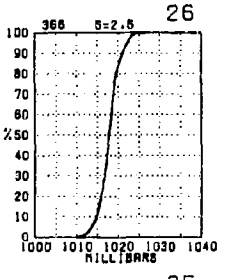


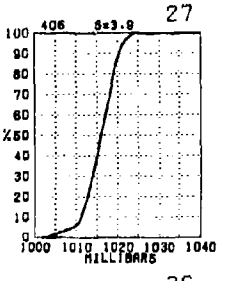


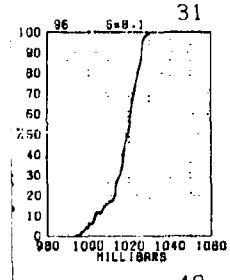


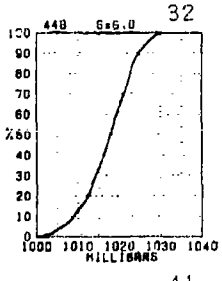


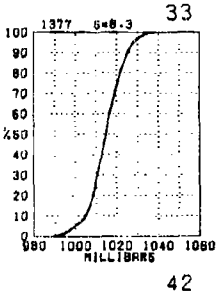


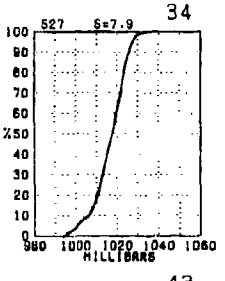


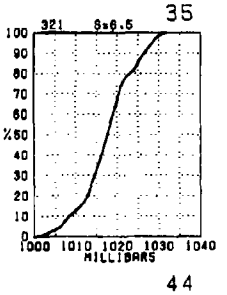


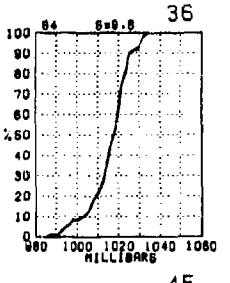












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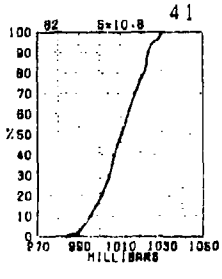
INSUFFICIENT DATA



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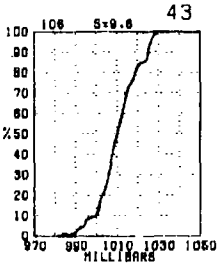
INSUFFICIENT DATA



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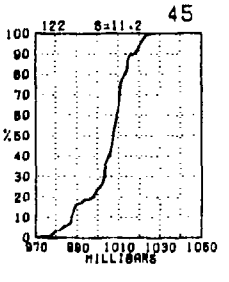
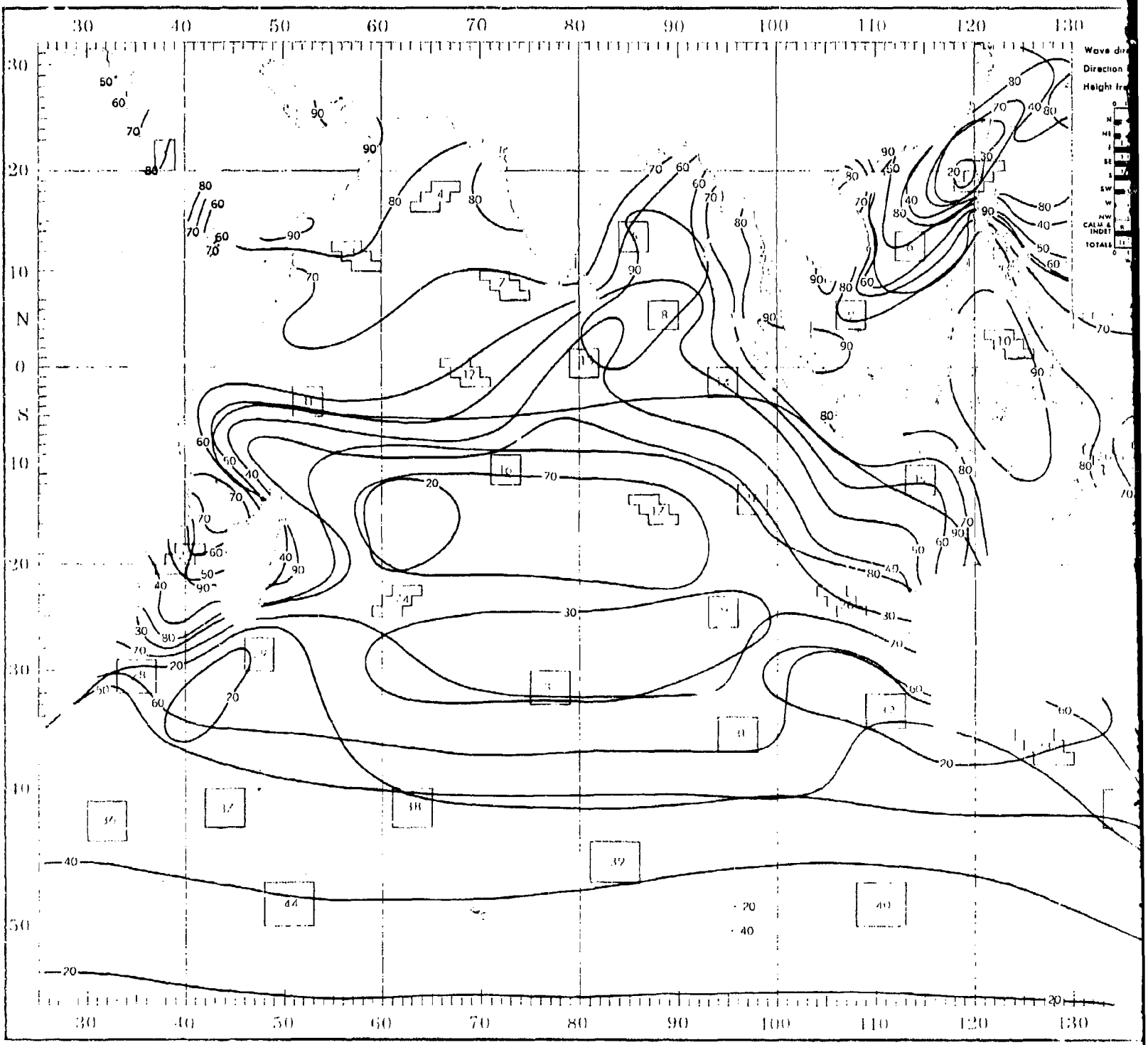
INSUFFICIENT DATA



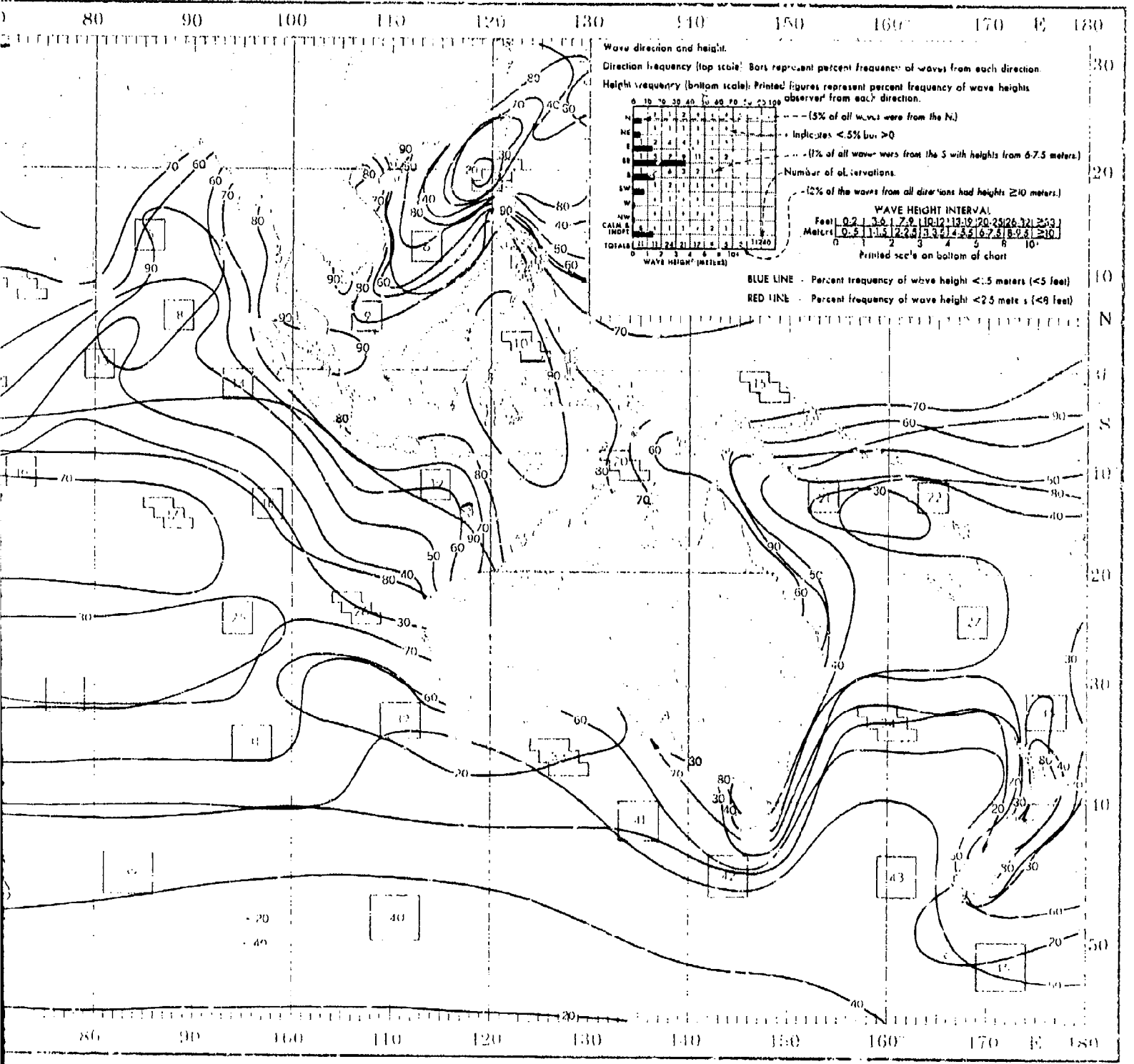
ctive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

OCTOBER

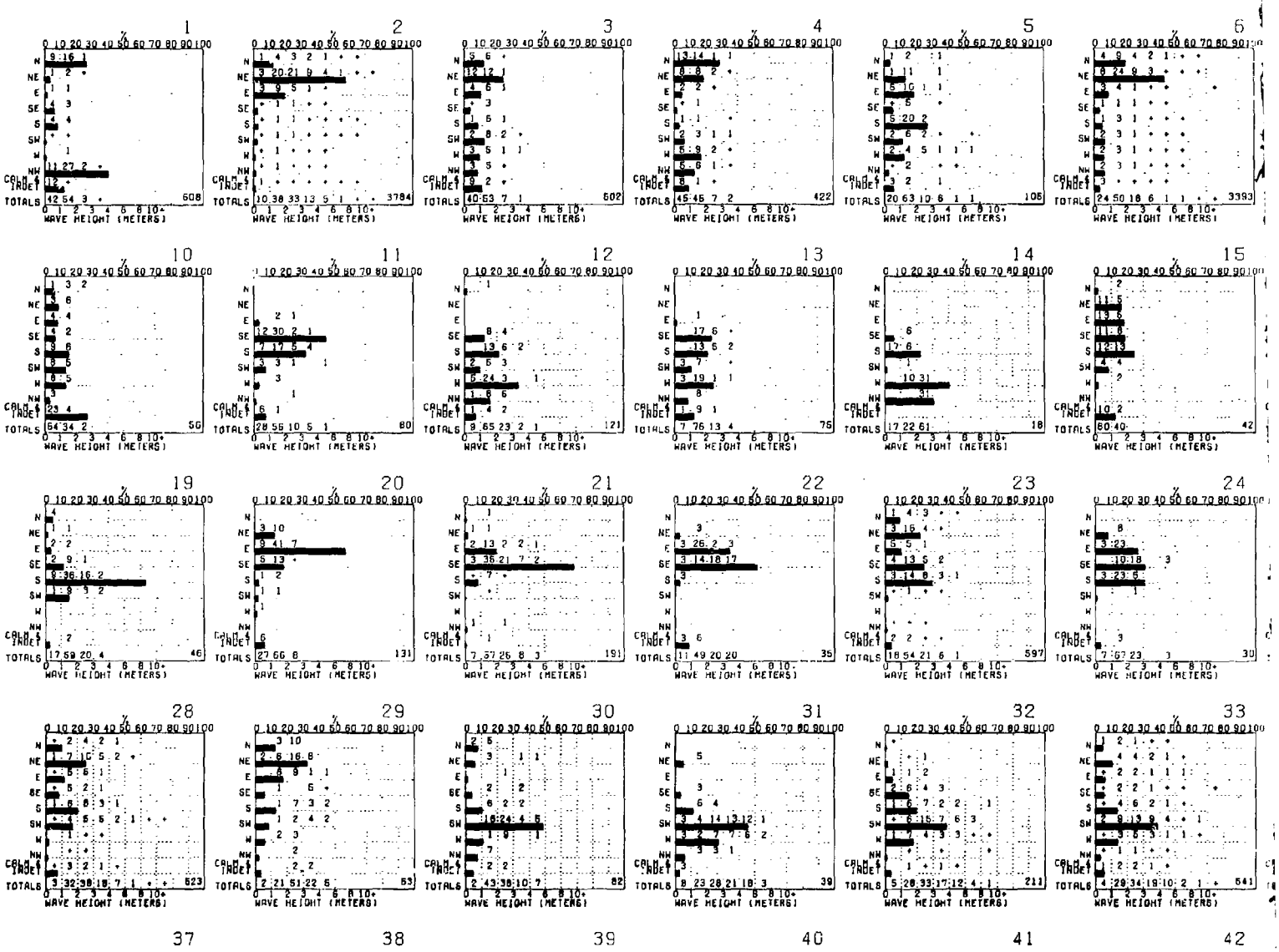
WAVES (



WAVES (<1.5 AND <2.5 METERS)



WAVE DIRECTION AND HEIGHT



Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

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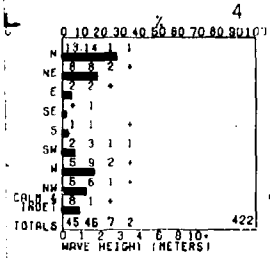

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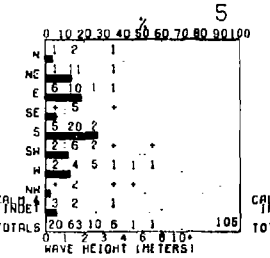

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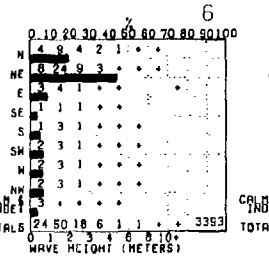

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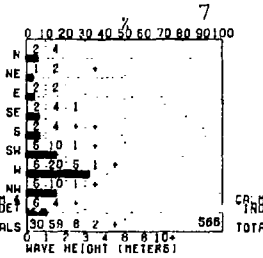

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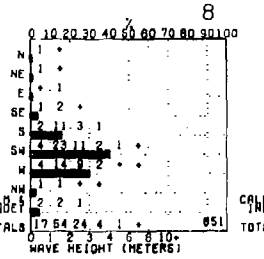

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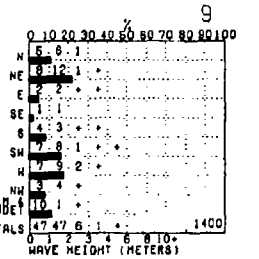

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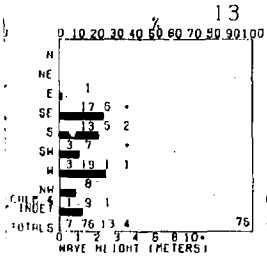

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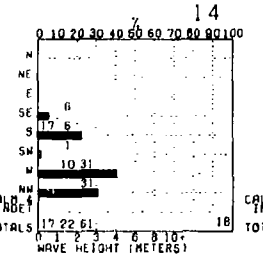

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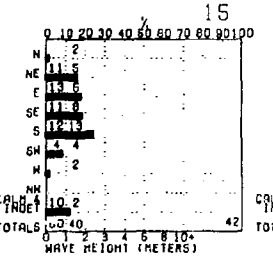

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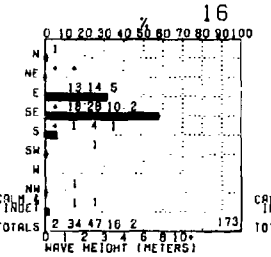

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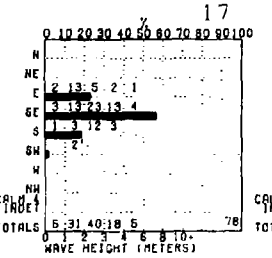

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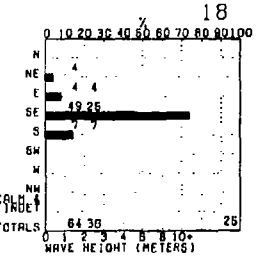

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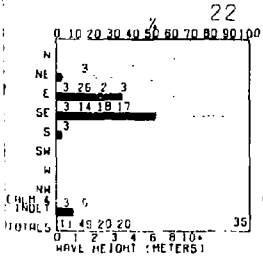

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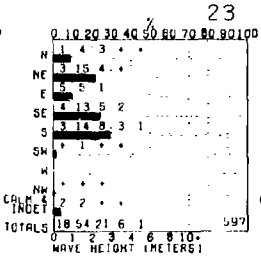

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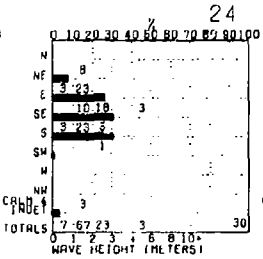

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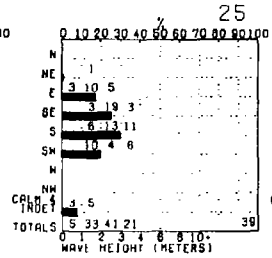

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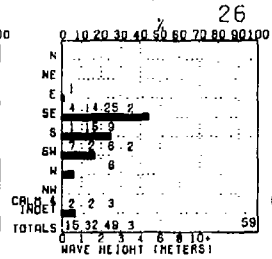

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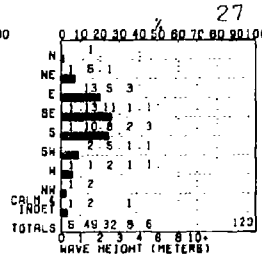

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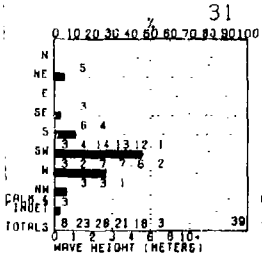

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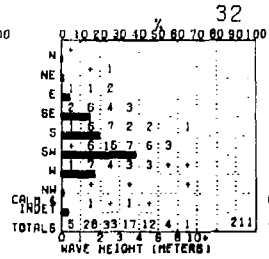

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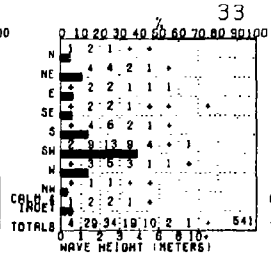

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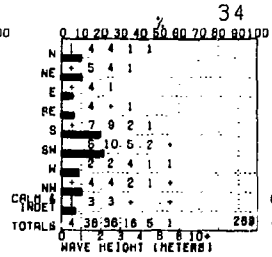

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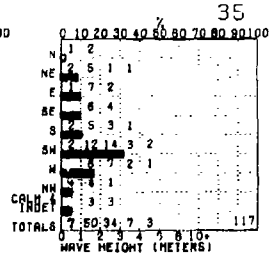


36

INSUFFICIENT DATA

40

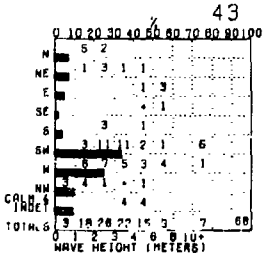
INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43


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INSUFFICIENT DATA

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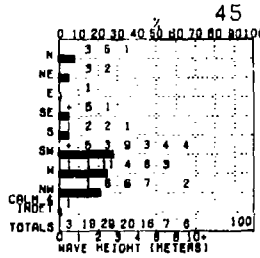

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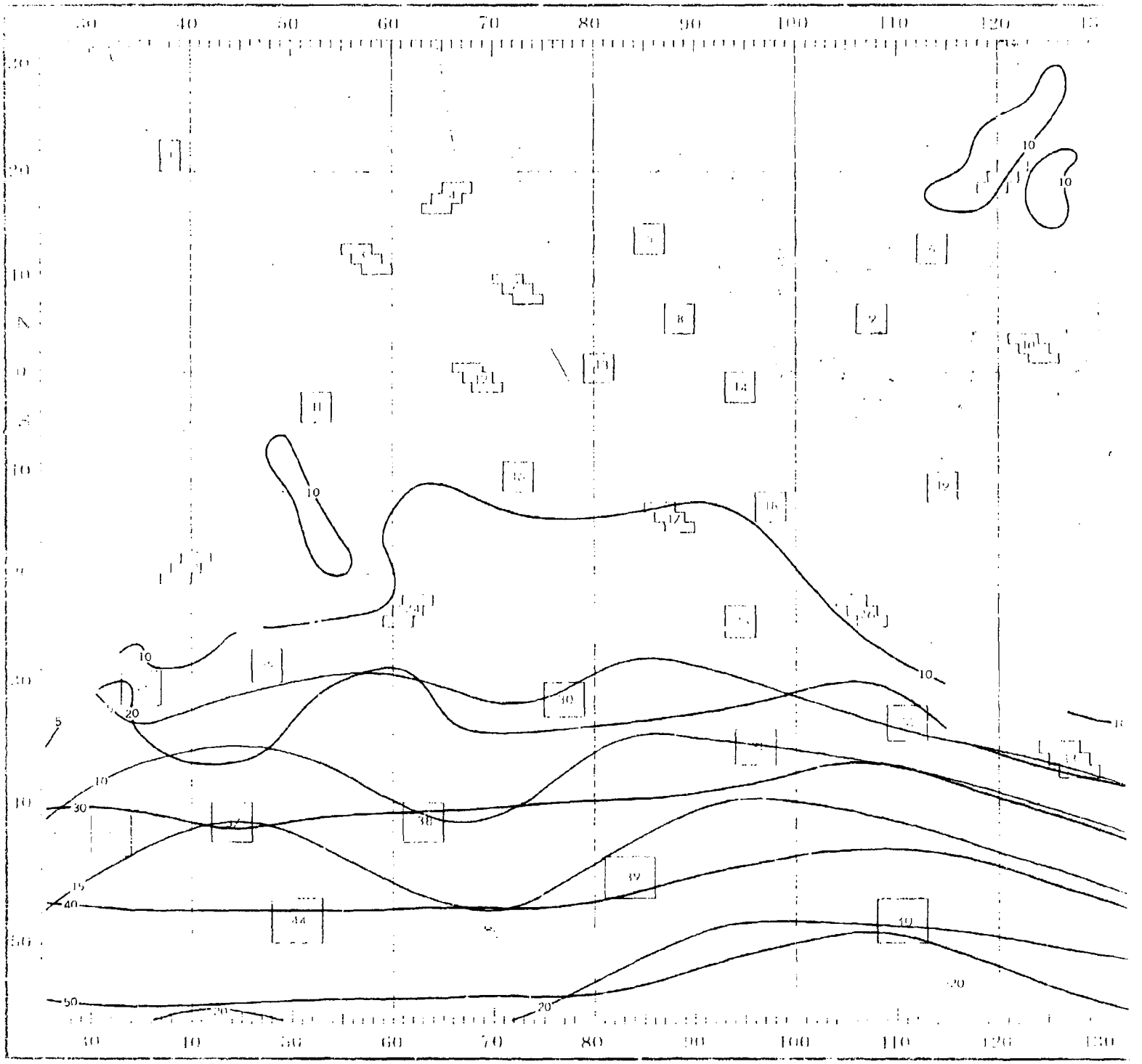
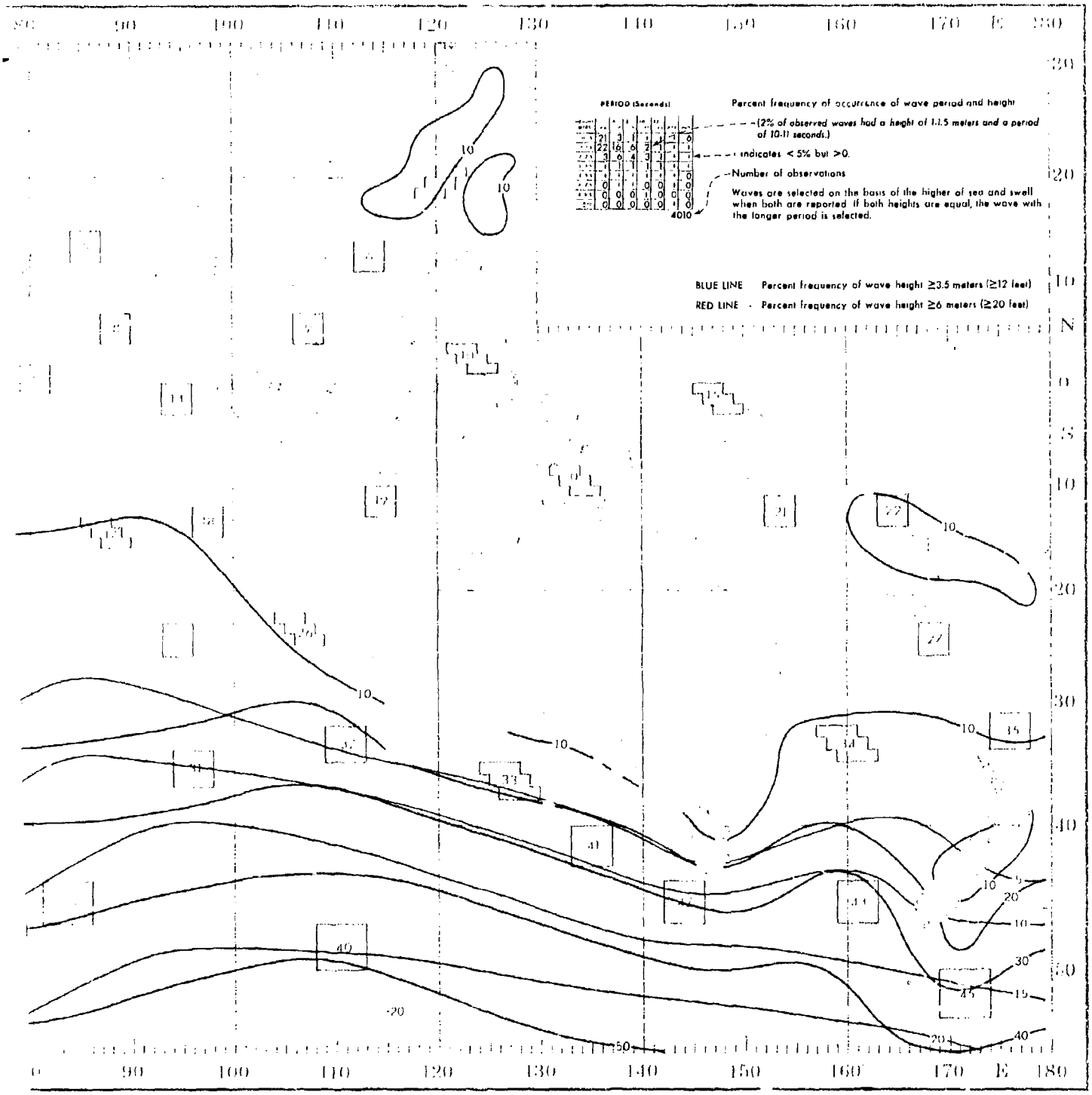
OCTOBER WAVE



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

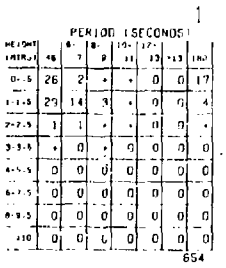
HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	26	2	*	*	0	0	17
1-1.5	29	14	3	*	0	0	4
2-2.5	1	1	*	*	0	0	*
3-3.5	*	0	*	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

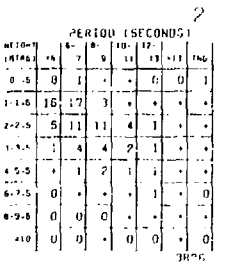
654

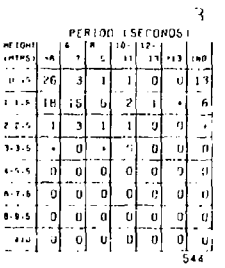
2

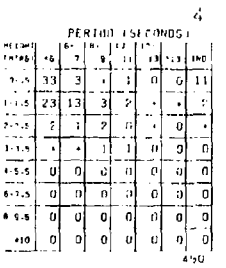
PERIOD (SECONDS)

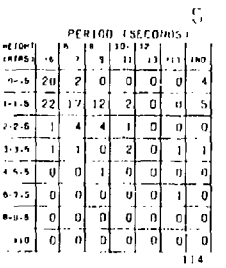
HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	1	*	*	0	0	1
1-1.5	16	17	3	*	*	*	*
2-2.5	5	11	11	4	1	*	*
3-3.5	1	4	4	2	1	*	*
4-5.5	*	1	2	1	1	*	*
6-7.5	0	*	*	*	1	*	0
8-9.5	0	0	0	*	*	*	*
>10	0	0	*	0	0	*	0

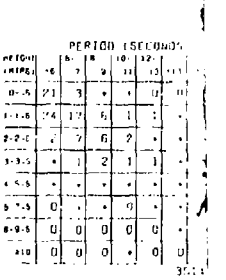


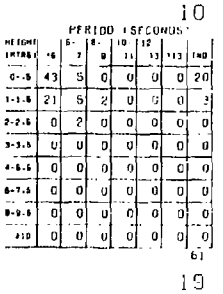


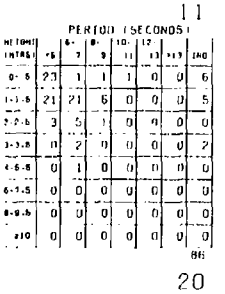


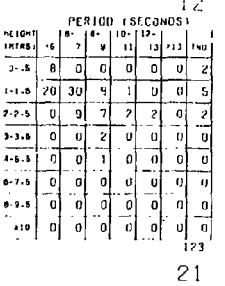


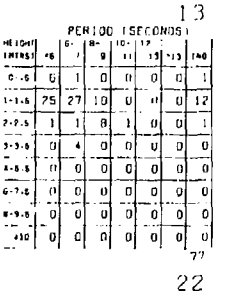












3826

3

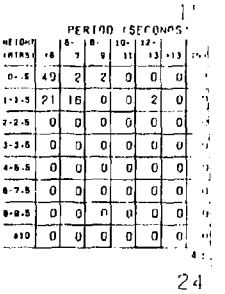
PERIOD (SECONDS)

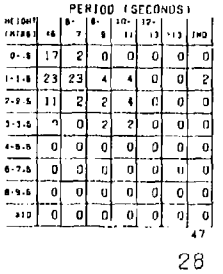
HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	26	3	1	1	0	0	13
1-1.5	18	15	6	2	1	*	6
2-2.5	1	3	1	1	0	0	*
3-3.5	*	0	*	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

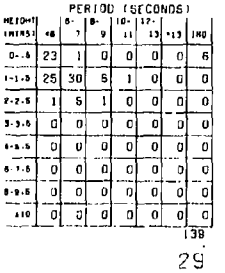
544

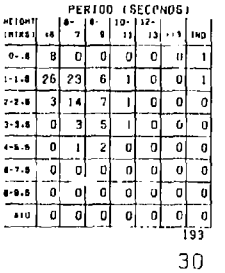
4

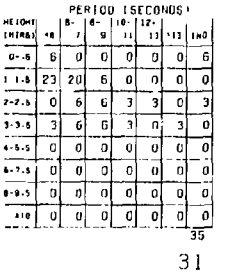
PERIOD (SECONDS)

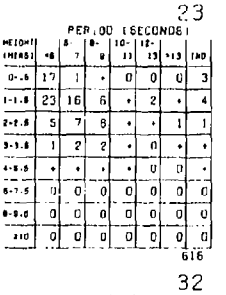


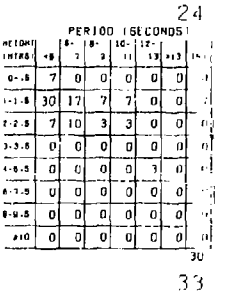


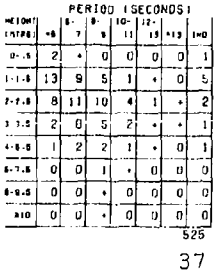


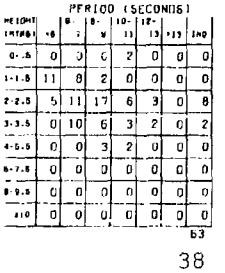


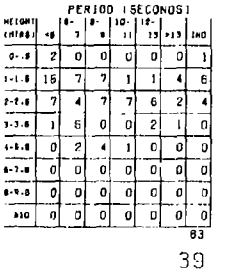


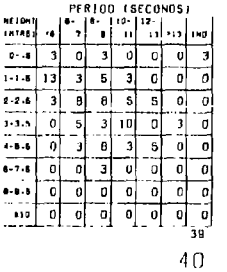


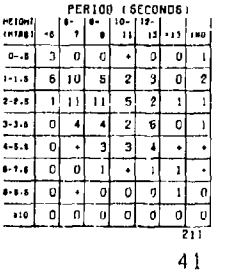


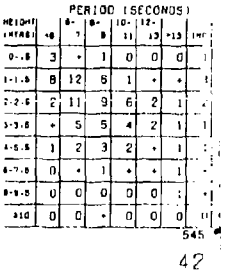


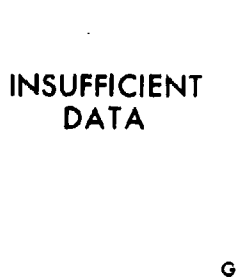












HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	33	3	*	1	0	0	11
1-1.5	23	13	3	2	*	*	2
2-2.5	2	1	2	0	*	0	*
3-3.5	*	*	1	1	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

450

5

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	2	0	0	0	0	4
1-1.5	22	17	12	2	0	0	5
2-2.5	1	4	4	1	0	0	0
3-3.5	1	1	0	2	0	1	1
4-5.5	0	0	1	0	0	0	0
6-7.5	0	0	0	0	0	1	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

114

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	21	3	*	*	0	0	[illegible]
1-1.5	24	17	6	1	1	*	[illegible]
2-2.5	2	7	6	2	*	*	[illegible]
3-3.5	*	1	2	1	1	*	[illegible]
4-5.5	*	*	*	*	*	*	[illegible]
6-7.5	0	*	*	0	*	*	[illegible]
8-9.5	0	0	0	0	0	*	[illegible]
>10	0	0	0	*	0	0	[illegible]

3[illegible]

10

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	43	5	0	0	0	0	20
1-1.5	21	5	2	0	0	0	3
2-2.5	0	2	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

61

11

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	1	1	1	0	0	6
1-1.5	21	21	6	0	0	0	5
2-2.5	3	5	1	0	0	0	0
3-3.5	0	2	0	0	0	0	2
4-5.5	0	1	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

86

12

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	0	0	0	2
1-1.5	20	30	9	1	0	0	5
2-2.5	0	9	7	2	2	0	2
3-3.5	0	0	2	0	0	0	0
4-5.5	0	0	1	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

123

13

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	1	0	0	0	0	1
1-1.5	25	27	10	0	0	0	12
2-2.5	1	1	8	1	0	0	1
3-3.5	0	4	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

77

14

INSUFFICIENT DATA

1[illegible]

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	49	2	2	0	0	0	[illegible]
1-1.5	21	16	0	0	2	0	[illegible]
2-2.5	0	0	0	0	0	0	[illegible]
3-3.5	0	0	0	0	0	0	[illegible]
4-5.5	0	0	0	0	0	0	[illegible]
6-7.5	0	0	0	0	0	0	[illegible]
8-9.5	0	0	0	0	0	0	[illegible]
>10	0	0	0	0	0	0	[illegible]

4[illegible]

19

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	2	0	0	0	0	0
1-1.5	23	23	4	4	0	0	2
2-2.5	11	2	2	4	0	0	0
3-3.5	0	0	2	2	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

47

20

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	1	0	0	0	0	6
1-1.5	25	30	5	1	0	0	0
2-2.5	1	5	1	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

139

21

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	0	0	0	1
1-1.5	26	23	6	1	0	0	1
2-2.5	3	14	7	1	0	0	0
3-3.5	0	3	5	1	0	0	0
4-5.5	0	1	2	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

193

22

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	6	0	0	0	0	0	6
1-1.5	23	20	6	0	0	0	0
2-2.5	0	6	6	3	3	0	3
3-3.5	3	6	6	3	0	3	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

23

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	1	*	0	0	0	3
1-1.5	23	16	6	*	2	*	4
2-2.5	5	7	8	*	*	1	1
3-3.5	1	2	2	*	0	*	*
4-5.5	*	*	*	*	0	0	*
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

616

24

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	0	0	0	0	0	[illegible]
1-1.5	30	17	7	7	0	0	[illegible]
2-2.5	7	10	3	3	0	0	[illegible]
3-3.5	0	0	0	0	0	0	[illegible]
4-5.5	0	0	0	0	3	0	[illegible]
6-7.5	0	0	0	0	0	0	[illegible]
8-9.5	0	0	0	0	0	0	[illegible]
>10	0	0	0	0	0	0	[illegible]

30

28

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	*	0	0	0	0	1
1-1.5	13	9	5	1	*	0	5
2-2.5	8	11	10	4	1	*	2
3-3.5	2	0	5	2	*	*	1
4-5.5	1	2	2	1	*	0	1
6-7.5	0	0	1	*	0	0	0
8-9.5	0	0	*	0	0	0	0
>10	0	0	*	0	0	0	0

525

29

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	2	0	0	0
1-1.5	11	8	2	0	0	0	0
2-2.5	5	11	17	6	3	0	8
3-3.5	0	10	6	3	2	0	2
4-5.5	0	0	3	2	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

63

30

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	16	7	7	1	1	4	6
2-2.5	7	4	7	7	6	2	4
3-3.5	1	6	0	0	2	1	0
4-5.5	0	2	4	1	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

83

31

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	3	0	0	0	3
1-1.5	13	3	5	3	0	0	0
2-2.5	3	8	8	5	5	0	0
3-3.5	0	5	3	10	0	3	0
4-5.5	0	3	8	3	5	0	0
6-7.5	0	0	3	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

39

32

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	*	0	0	1
1-1.5	6	10	5	2	3	0	2
2-2.5	1	11	11	5	2	1	1
3-3.5	0	4	4	2	6	0	1
4-5.5	0	*	3	3	4	*	*
6-7.5	0	0	1	*	1	1	*
8-9.5	0	*	0	0	0	1	0
>10	0	0	0	0	0	0	0

211

33

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	*	1	0	0	0	1
1-1.5	8	12	6	1	*	*	[illegible]
2-2.5	2	11	9	6	2	1	[illegible]
3-3.5	*	5	5	4	2	1	1
4-5.5	1	2	3	2	*	1	[illegible]
6-7.5	0	*	1	*	*	1	[illegible]
8-9.5	0	0	0	0	0	[illegible]	[illegible]
>10	0	0	*	0	0	0	[illegible]

545

37

INSUFFICIENT DATA

38

INSUFFICIENT DATA

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

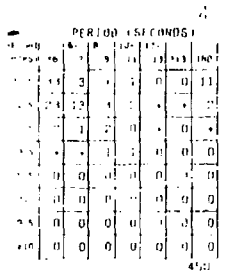
Graphs represent the objective compilation of available data for specified areas without re

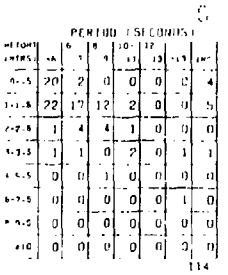
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

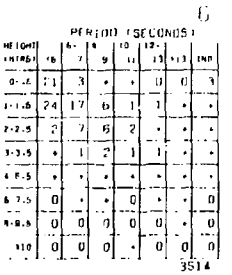
OCTOBER

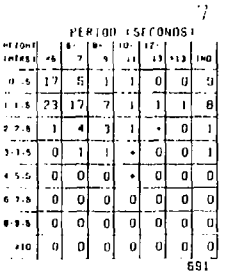
4

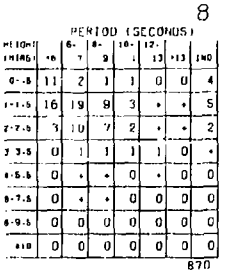
PERIOD (SECONDS)



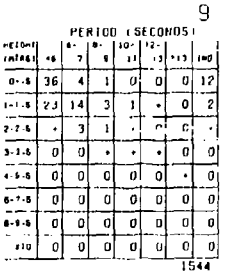


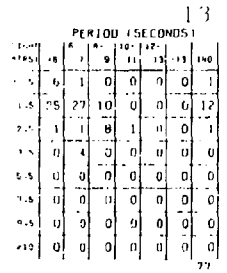






HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
[illegible]	13	3	[illegible]	[illegible]	0	0	11
[illegible]	23	13	[illegible]	[illegible]	*	*	[illegible]
[illegible]	[illegible]	1	2	0	*	0	*
[illegible]	*	*	1	[illegible]	0	0	0
[illegible]	0	0	0	0	0	[illegible]	0
[illegible]	0	0	0	[illegible]	0	0	0
[illegible]	0	0	0	0	[illegible]	0	0
>10	0	0	0	0	0	0	0





450

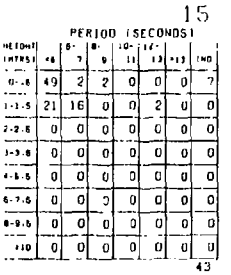
5

PERIOD (SECONDS)

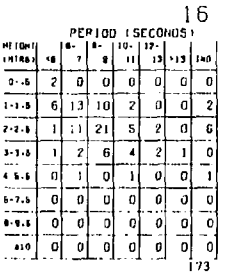
HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	2	0	0	0	0	4
1-1.5	22	17	12	2	0	0	5
2-2.5	1	4	4	1	0	0	0
3-3.5	1	1	0	2	0	1	1
4-5.5	0	0	1	0	0	0	0
6-7.5	0	0	0	0	0	1	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

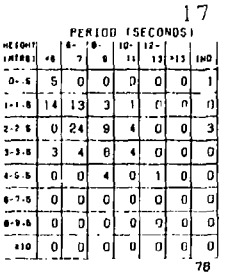
114

6

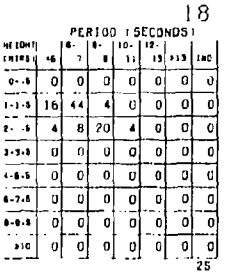


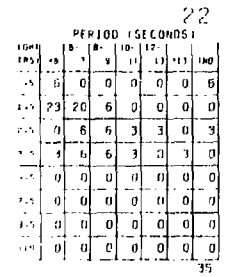
PERIOD (SECONDS)





HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	21	3	*	*	0	0	3
1-1.5	24	17	6	1	1	*	*
2-2.5	2	7	6	2	*	*	*
3-3.5	*	1	2	1	1	*	*
4-5.5	*	*	*	*	*	*	*
6-7.5	0	*	*	0	*	*	0
8-9.5	0	0	0	0	0	*	0
>10	0	0	0	*	0	0	0

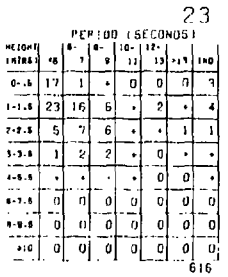


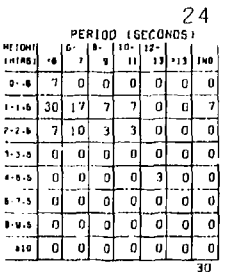


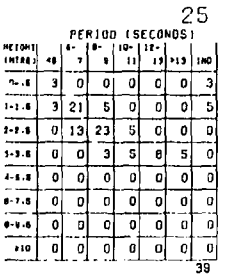
3514

7

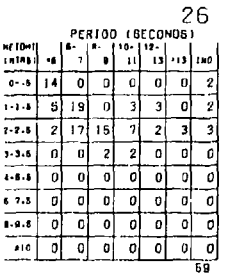
PERIOD (SECONDS)

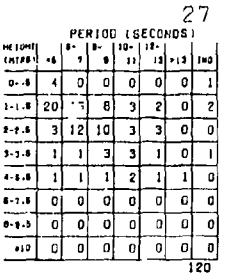






HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	5	1	1	0	0	9
1-1.5	23	17	7	1	1	1	8
2-2.5	1	4	3	1	*	0	1
3-3.5	0	1	1	*	0	0	1
4-5.5	0	0	0	*	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

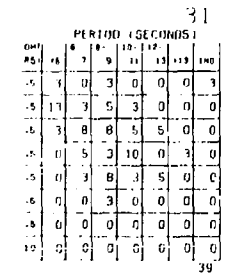


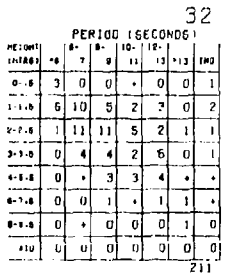


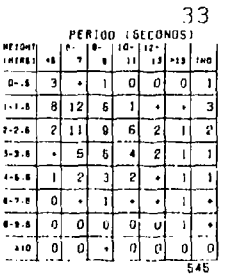
691

8

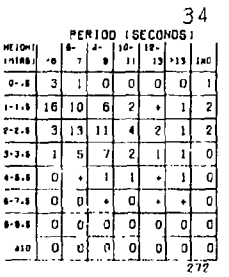
PERIOD (SECONDS)







HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	11	2	1	1	0	0	4
1-1.5	16	19	9	3	*	*	5
2-2.5	3	10	7	2	*	*	2
3-3.5	0	1	1	1	1	0	*
4-5.5	0	*	*	0	*	0	0
6-7.5	0	*	*	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0



870

9

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	36	4	1	0	0	0	12
1-1.5	23	14	3	1	*	0	2
2-2.5	*	3	1	*	0	0	*
3-3.5	0	0	*	*	*	0	0
4-5.5	0	0	0	0	0	*	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1544

13

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
[illegible]	6	1	0	0	0	0	1
[illegible]	25	27	10	0	0	0	12
[illegible]	1	1	8	1	0	0	1
[illegible]	0	4	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

77

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	49	2	2	0	0	0	7
1-1.5	21	16	0	0	2	0	0
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

43

16

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	0	0	0	0	0	0
1-1.5	6	13	10	2	0	0	2
2-2.5	1	11	21	5	2	0	6
3-3.5	1	2	6	4	2	1	0
4-5.5	0	1	0	1	0	0	1
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

173

17

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	0	0	0	0	1
1-1.5	14	13	3	1	0	0	0
2-2.5	0	24	9	4	0	0	3
3-3.5	3	4	8	4	0	0	0
4-5.5	0	0	4	0	1	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

78

18

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	16	44	4	0	0	0	0
2-2.5	4	8	20	4	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

25

22

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
[illegible]	6	0	0	0	0	0	6
[illegible]	23	20	6	0	0	0	0
[illegible]	0	6	6	3	3	0	3
[illegible]	3	6	6	3	0	3	0
[illegible]	0	0	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0
[illegible]	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

35

23

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	17	1	*	0	0	0	3
1-1.5	23	16	6	*	2	*	4
2-2.5	5	7	6	*	*	1	1
3-3.5	1	2	2	*	0	*	*
4-5.5	*	*	*	*	0	0	*
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

616

24

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	7	0	0	0	0	0	0
1-1.5	30	17	7	7	0	0	7
2-2.5	7	10	3	3	0	0	0
3-3.5	0	0	0	0	0	0	0
4-5.5	0	0	0	0	3	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

30

25

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	3
1-1.5	3	21	5	0	0	0	5
2-2.5	0	13	23	5	0	0	0
3-3.5	0	0	3	5	8	5	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

39

26

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	0	0	0	0	0	2
1-1.5	5	19	0	3	3	0	2
2-2.5	2	17	15	7	2	3	3
3-3.5	0	0	2	2	0	0	0
4-5.5	0	0	0	0	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

59

27

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	1
1-1.5	20	[illegible]	8	3	2	0	2
2-2.5	3	12	10	3	3	0	0
3-3.5	1	1	3	3	1	0	1
4-5.5	1	1	1	2	1	1	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

120

31

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
[illegible]	3	0	3	0	0	0	3
[illegible]	13	3	5	3	0	0	0
[illegible]	3	8	8	5	5	0	0
[illegible]	0	5	3	10	0	3	0
[illegible]	0	3	8	3	5	0	0
[illegible]	0	0	3	0	0	0	0
[illegible]	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

39

32

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	*	0	0	1
1-1.5	6	10	5	2	3	0	2
2-2.5	1	11	11	5	2	1	1
3-3.5	0	4	4	2	6	0	1
4-5.5	0	*	3	3	4	*	*
6-7.5	0	0	1	*	1	1	*
8-9.5	0	*	0	0	0	1	0
>10	0	0	0	0	0	0	0

211

33

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	*	1	0	0	0	1
1-1.5	8	12	6	1	*	*	3
2-2.5	2	11	9	6	2	1	2
3-3.5	*	5	5	4	2	1	1
4-5.5	1	2	3	2	*	1	1
6-7.5	0	*	1	*	*	1	*
8-9.5	0	0	0	0	0	1	*
>10	0	0	*	0	0	0	0

545

34

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	1	0	0	0	0	1
1-1.5	16	10	6	2	*	1	2
2-2.5	3	13	11	4	2	1	2
3-3.5	1	5	7	2	1	1	0
4-5.5	0	*	1	1	*	1	0
6-7.5	0	0	*	0	*	*	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

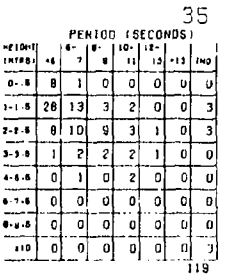
272

35

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	1	0	0	0	0	0
1-1.5	28	13	3	2	0	0	3
2-2.5	8	10	9	3	1	0	3
3-3.5	1	2	2	2	1	0	0
4-5.5	0	1	0	2	0	0	0
6-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	3

119



36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

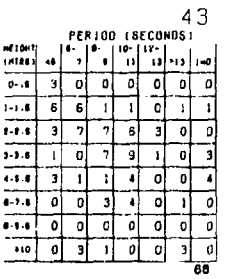
41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43



PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	0
1-1.5	6	6	1	1	0	1	1
2-2.5	3	7	7	6	3	0	0
3-3.5	1	0	7	9	1	0	3
4-5.5	3	1	1	4	0	0	4
6-7.5	0	0	3	4	0	1	0
8-9.5	0	0	0	0	0	0	0
>10	0	3	1	0	0	3	0

68

44

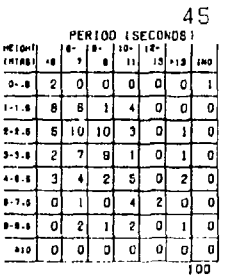
INSUFFICIENT DATA

45

PERIOD (SECONDS)

HEIGHT (MTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	0	0	0	0	0	1
1-1.5	8	6	1	4	0	0	0
2-2.5	5	10	10	3	0	1	0
3-3.5	2	7	9	1	0	1	0
4-5.5	3	4	2	5	0	2	0
6-7.5	0	1	0	4	2	0	0
8-9.5	0	2	1	2	0	1	0
>10	0	0	0	0	0	0	0

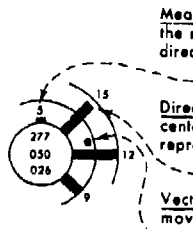
100



ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

OCTOBER

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).



Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

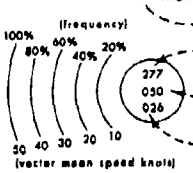
(Centers moving toward the N had a mean speed of 5 knots.)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

(35% of all tropical cyclones moved toward the NE.)

Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

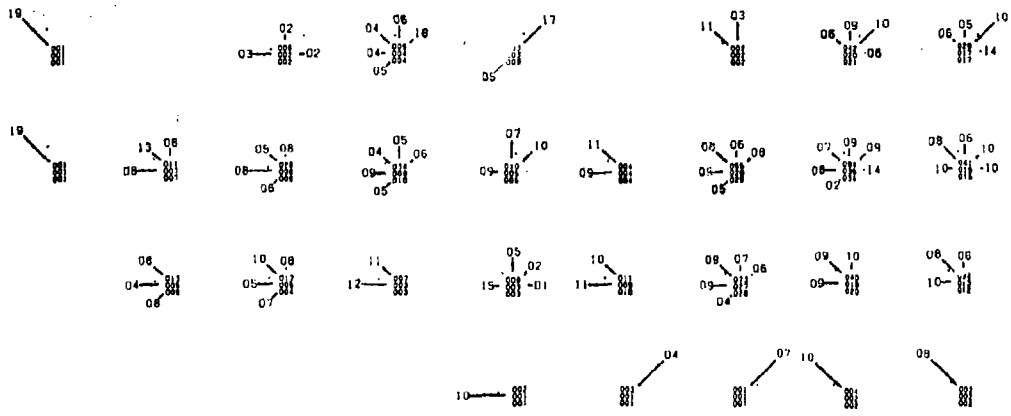
(Mean vector movement of all centers was toward 75° at 7 knots.)



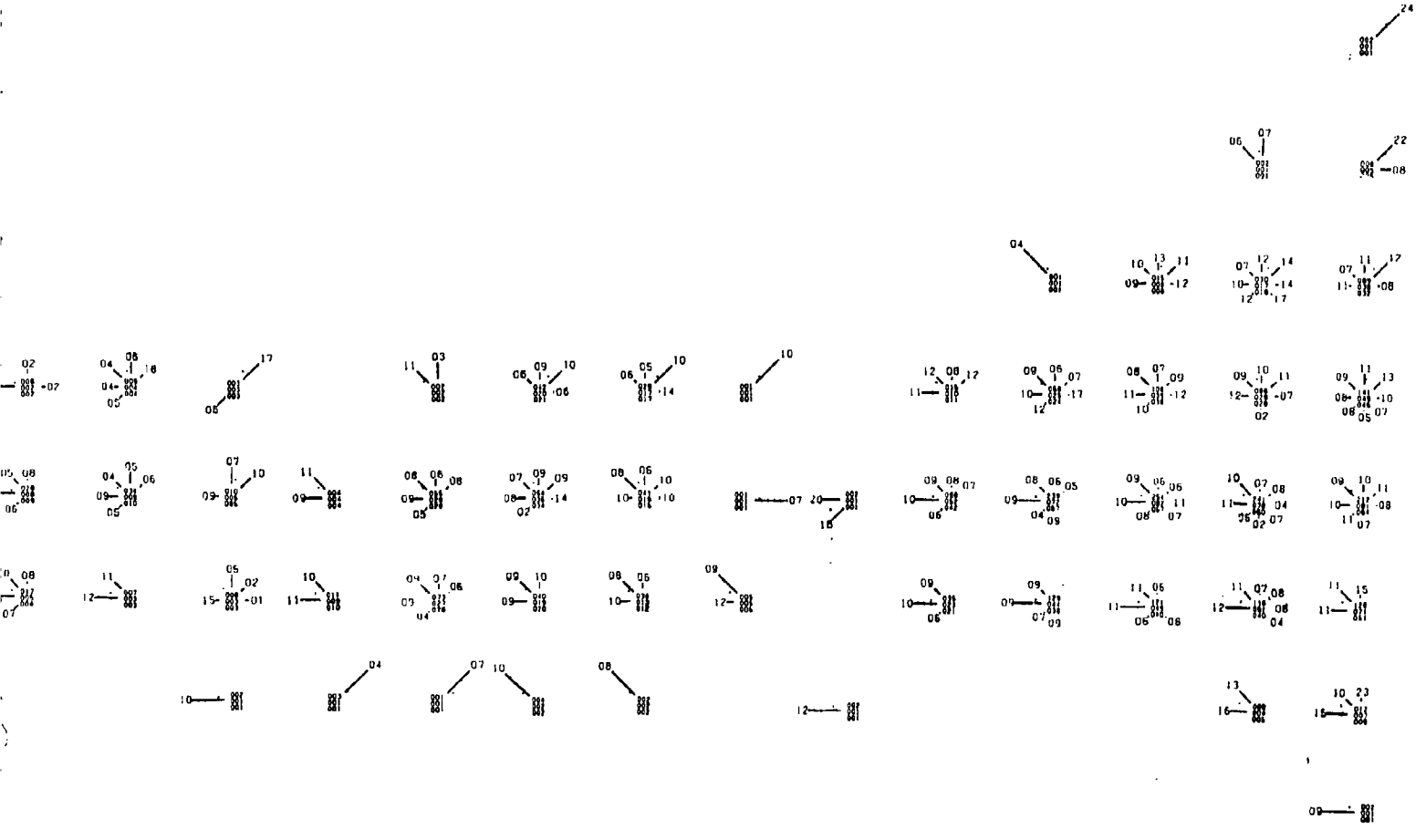
Statistics for this rose are based on 277 twelve hour movements.

50 individual storms were observed in the 5° × 5° area during the period of record.

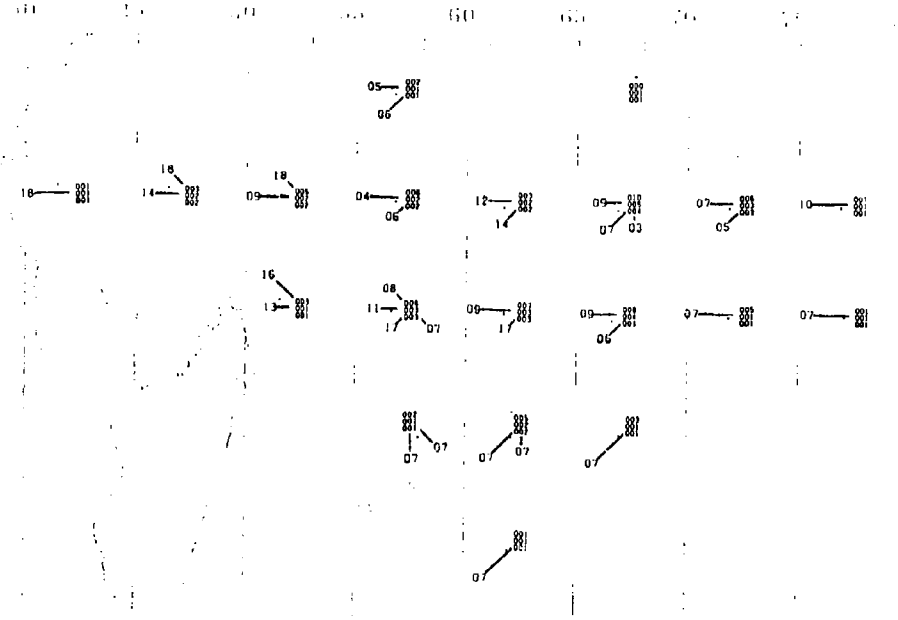
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.



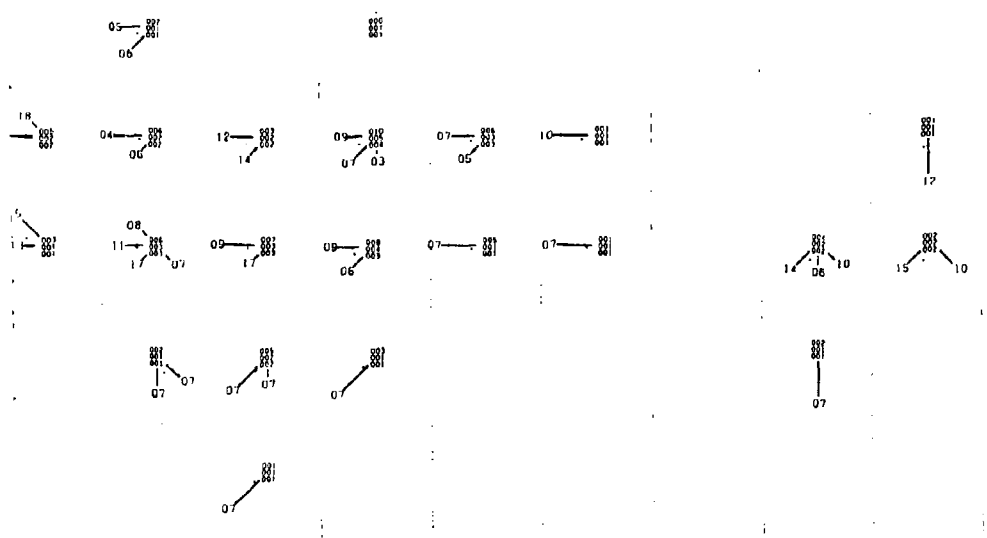
TROPICAL CYCLONE



TROPICAL CYCLONE



OCTOBER



12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).

Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

(*Centers moving toward the N had a mean speed of 5 knots.*)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

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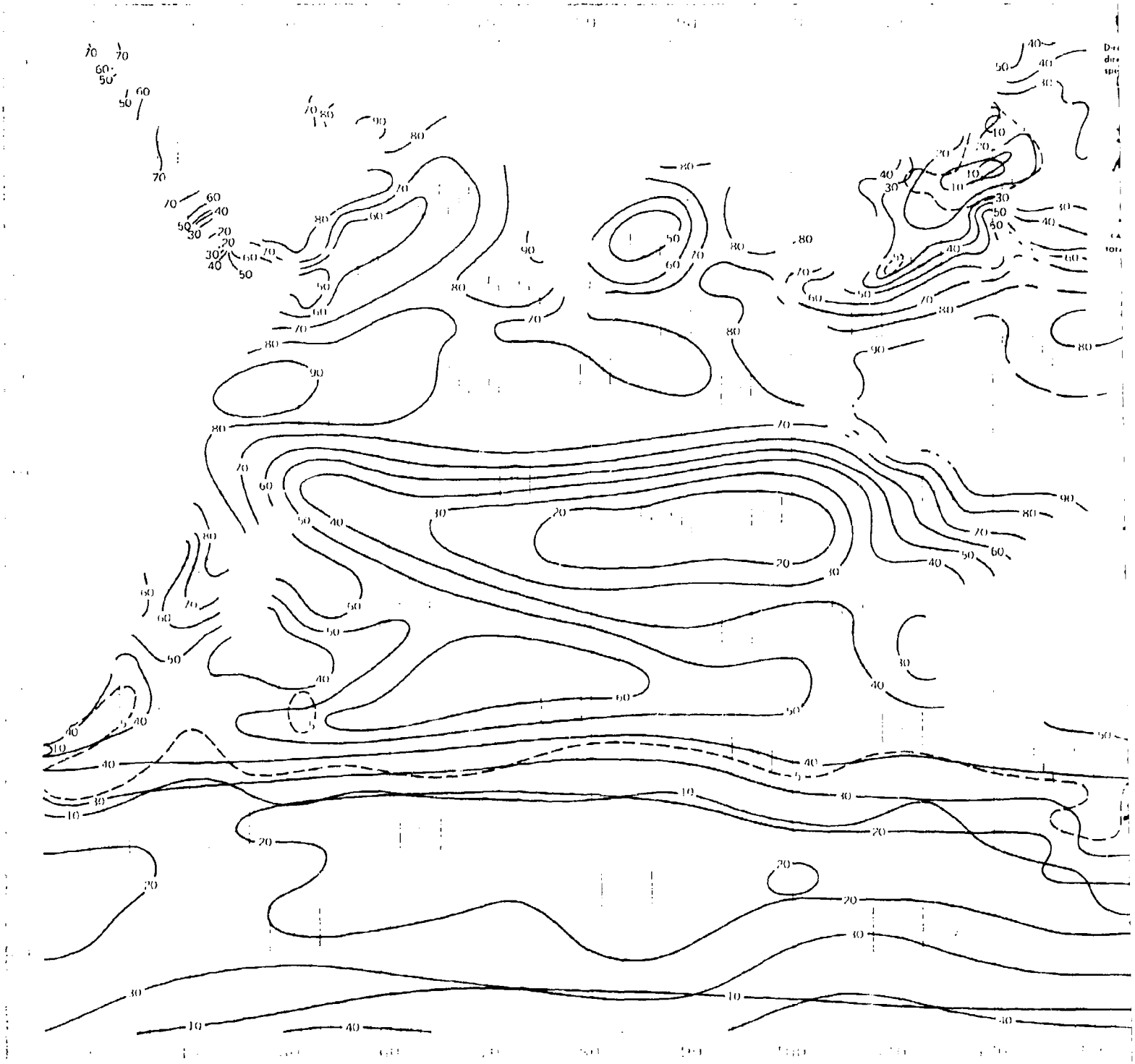
Statistics for this rose are based on 277 twelve hour movements.

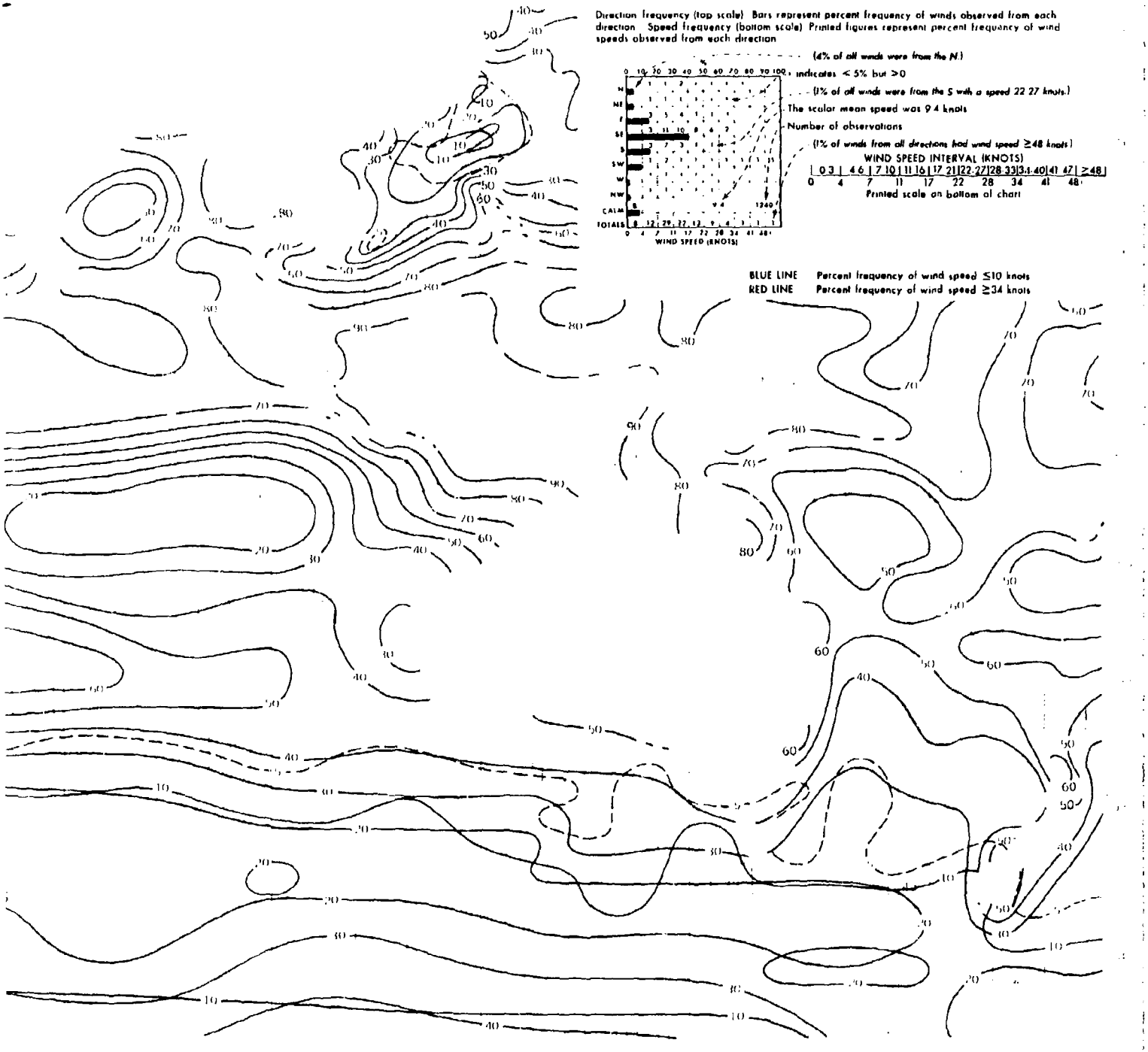
50 individual storms were observed in the 5° X 5° area during the period of record.

Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

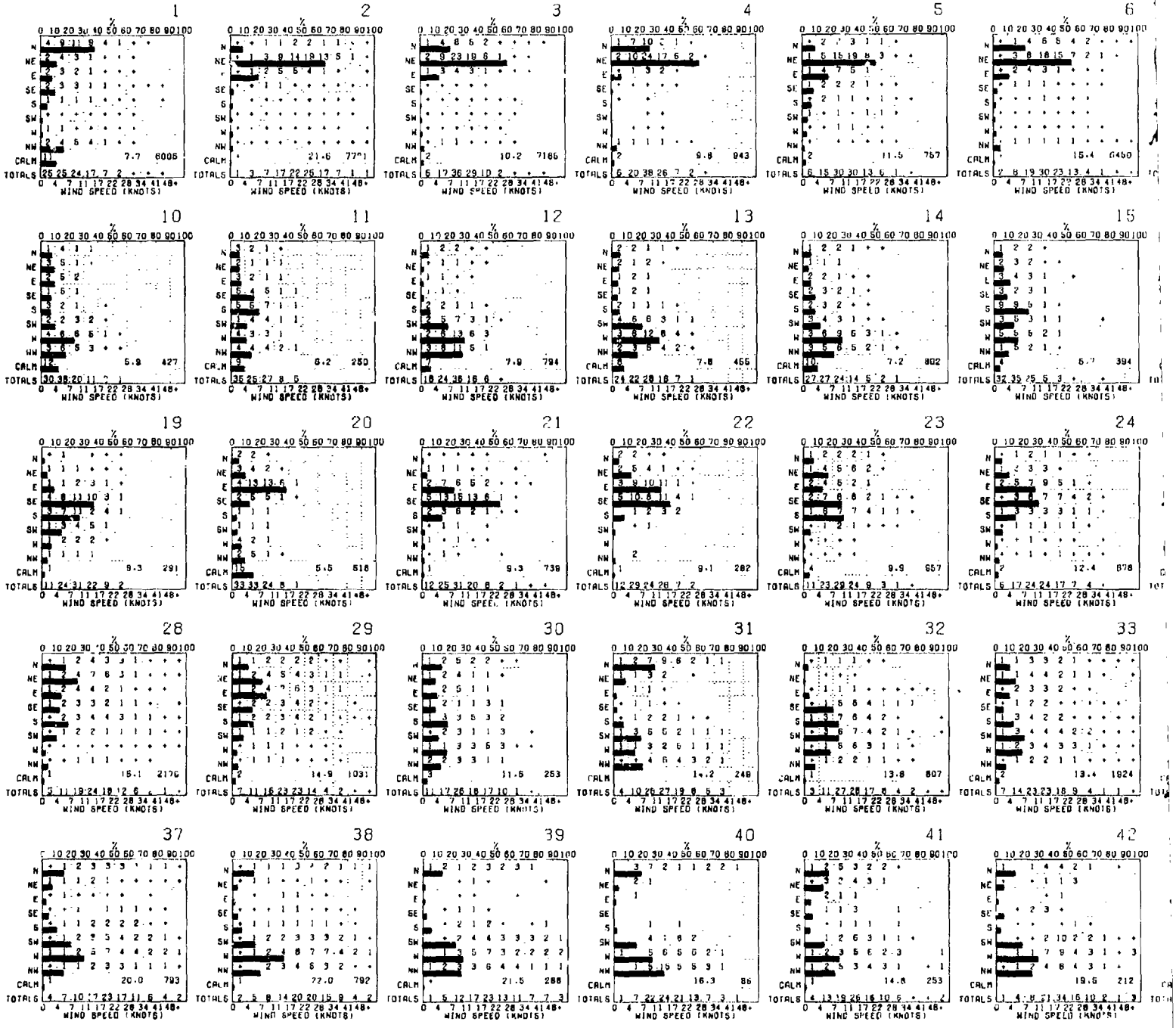
NOVEMBER



SURFACE WINDS

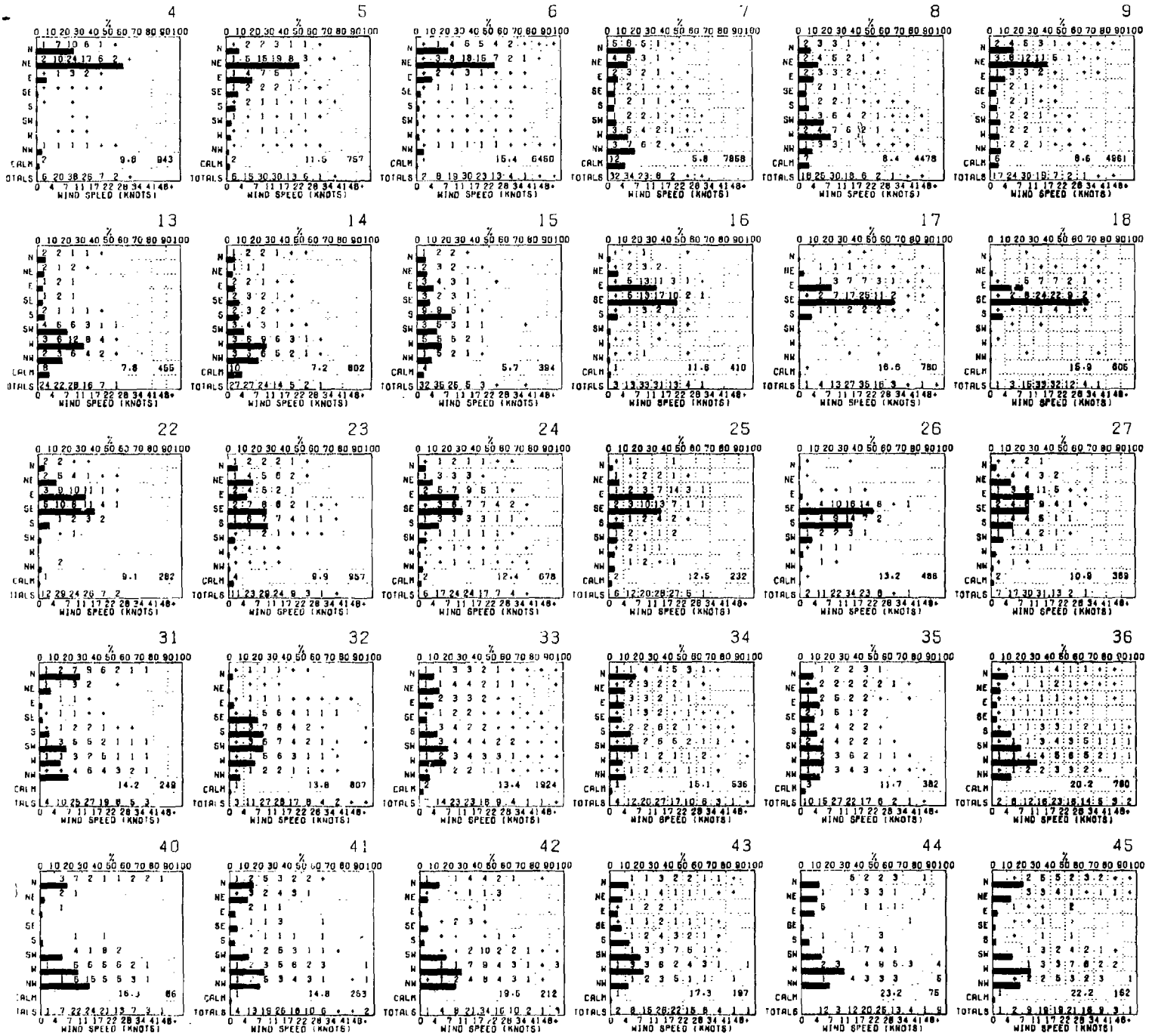


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without rega
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

NOVEMBER



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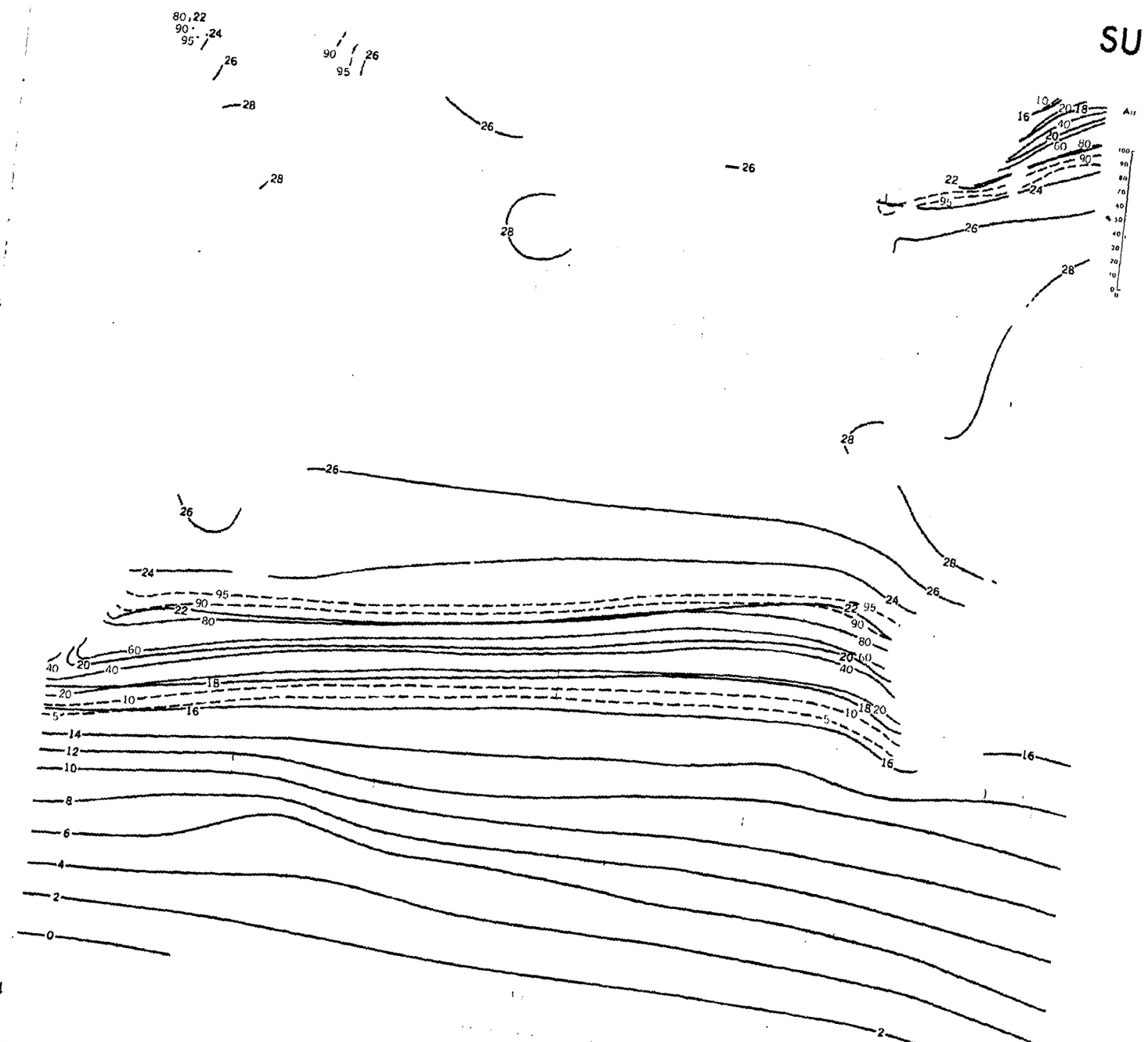
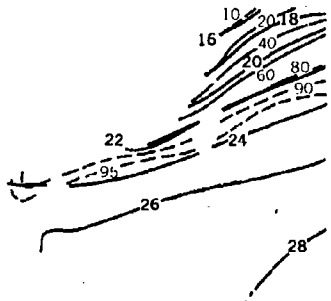
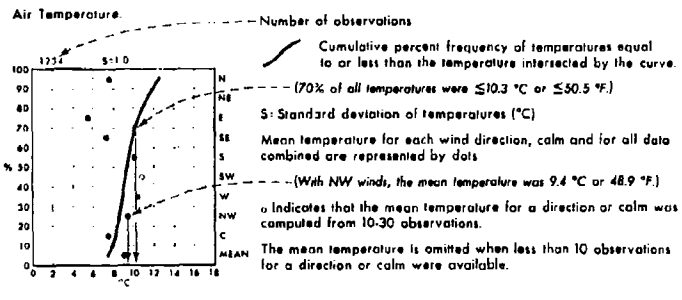
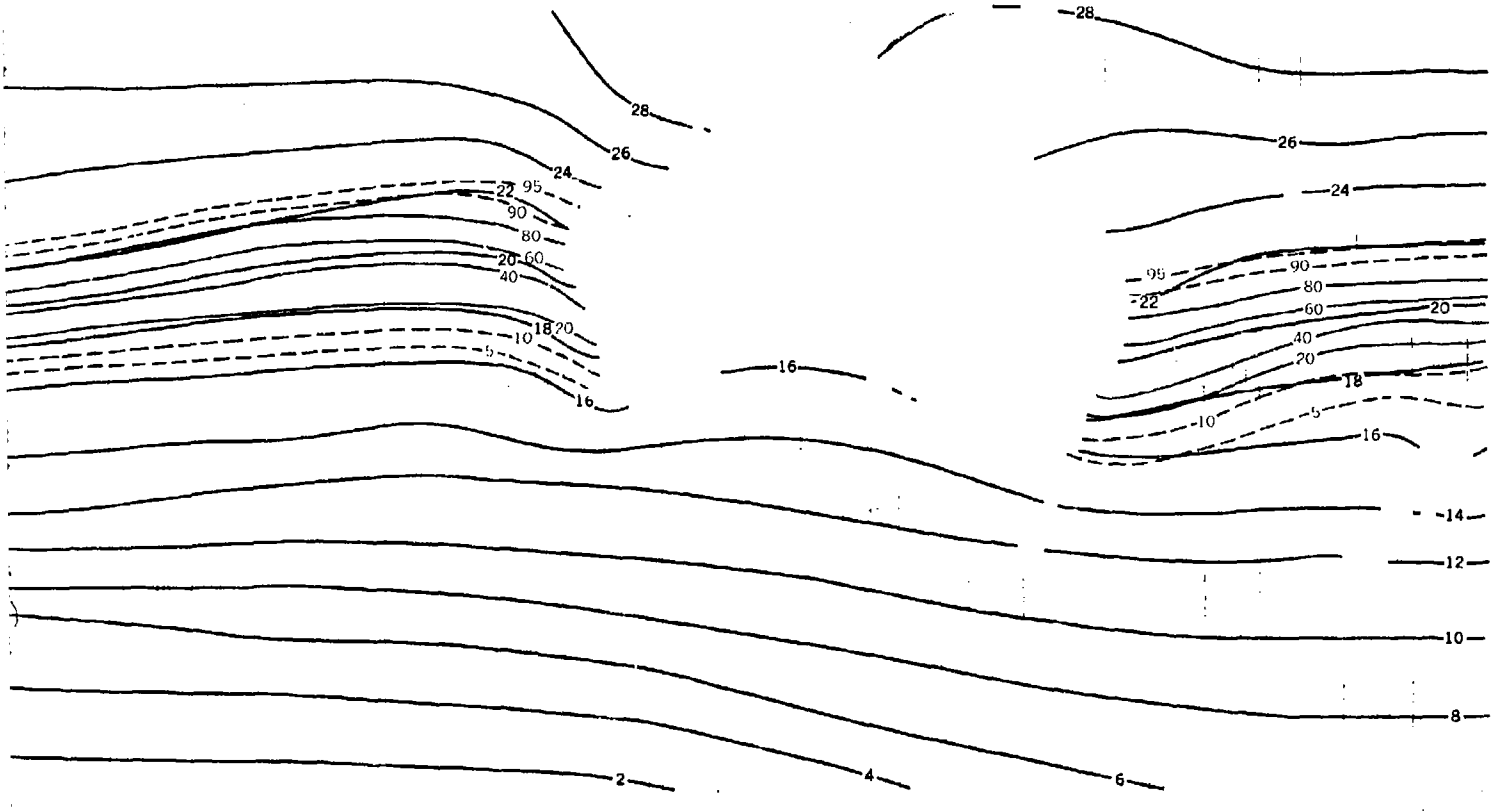
NOVEMBER



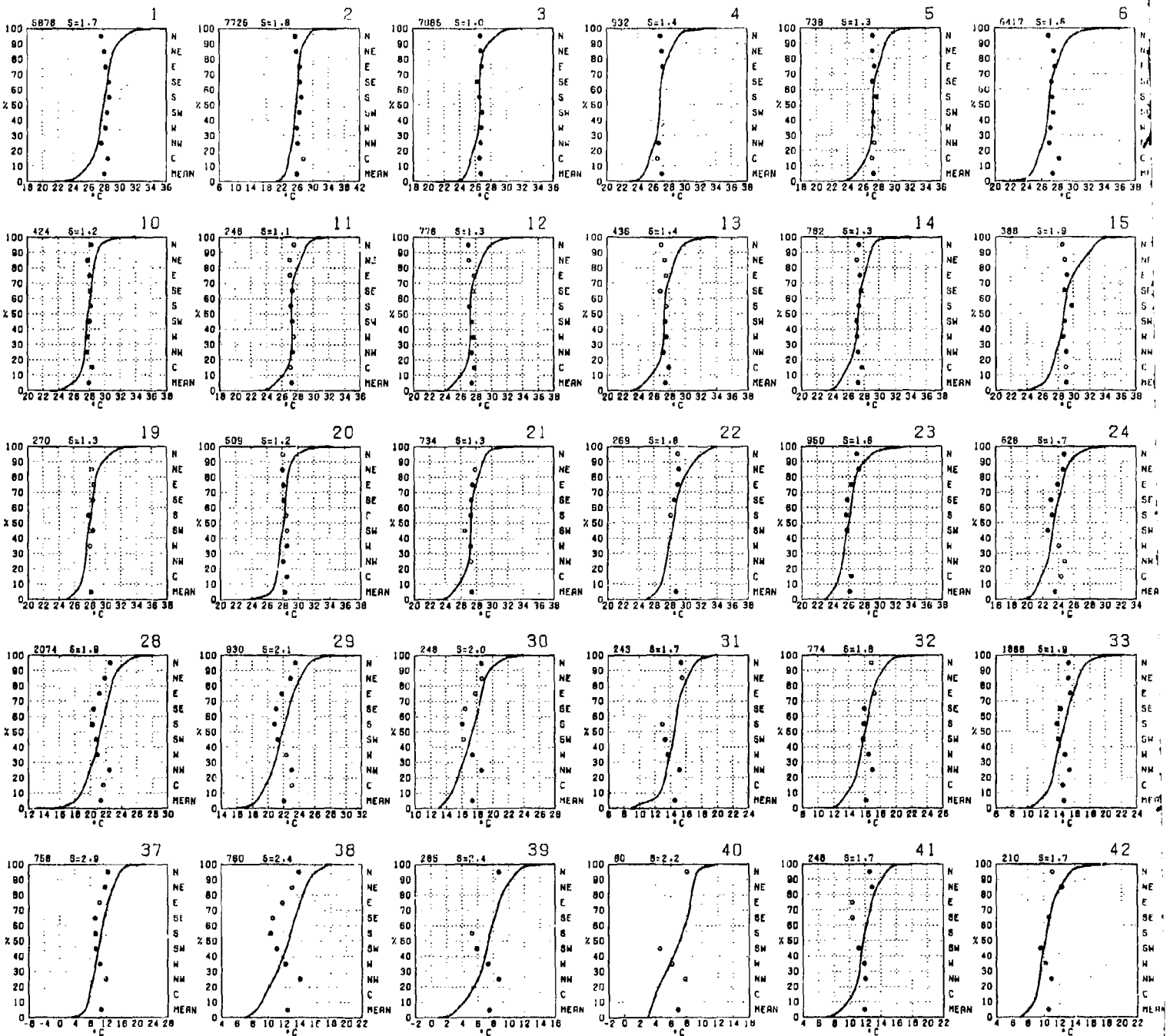
SURFACE AIR TEMPERATURE







SURFACE AIR TEMPERATURE



Graphs represent the objective compilation of available data for specified areas without re
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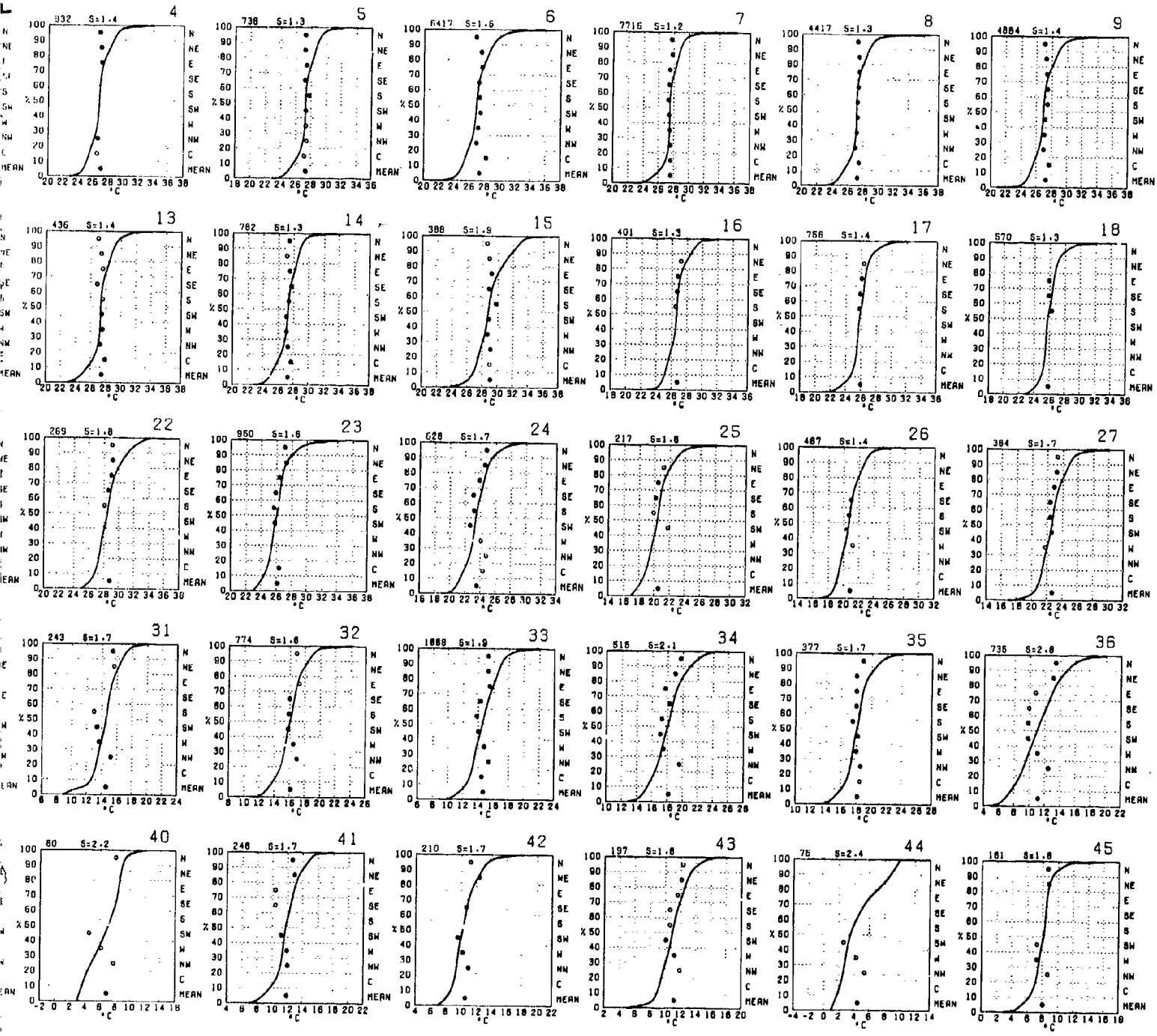
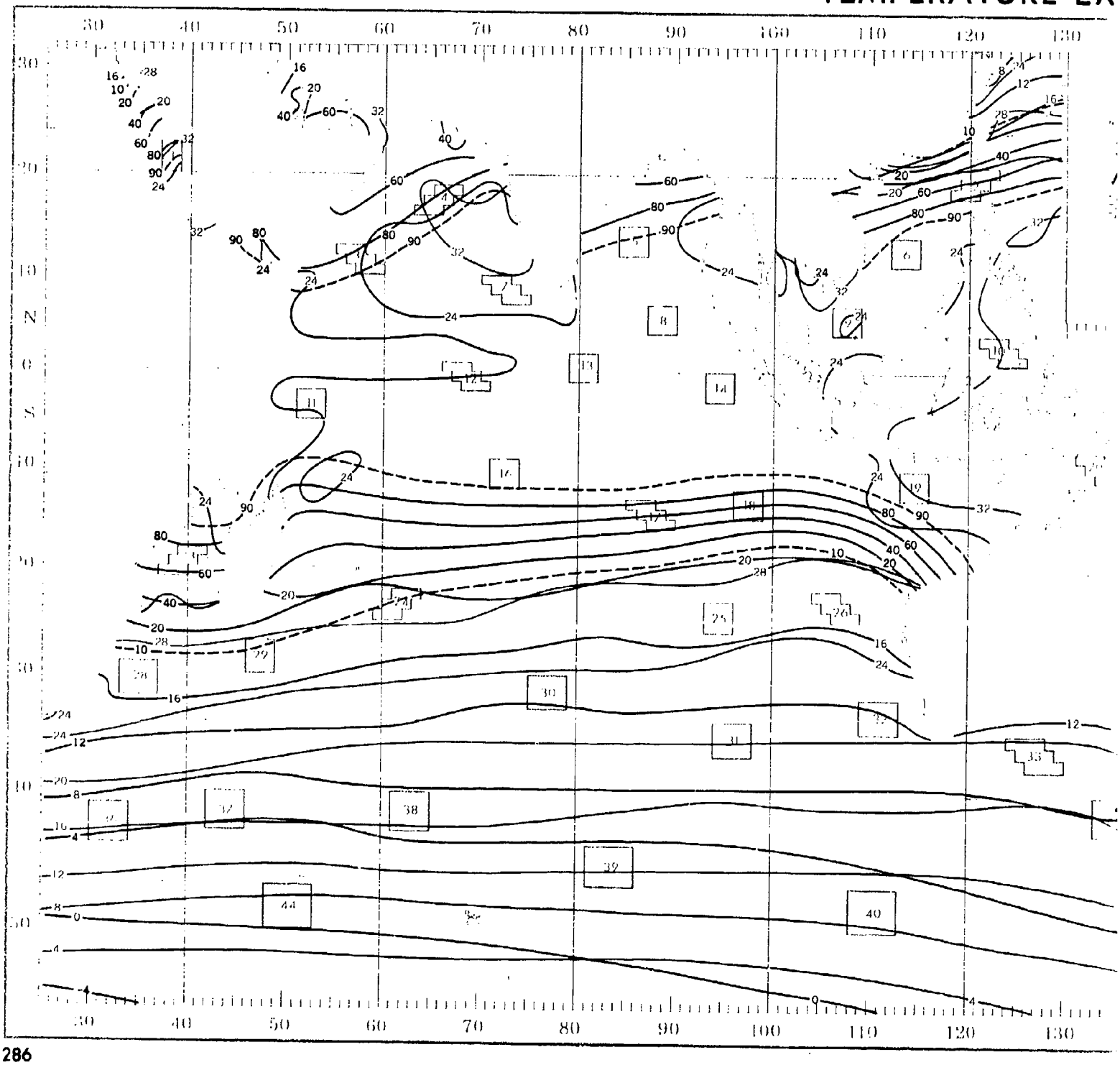
NOVEMBER



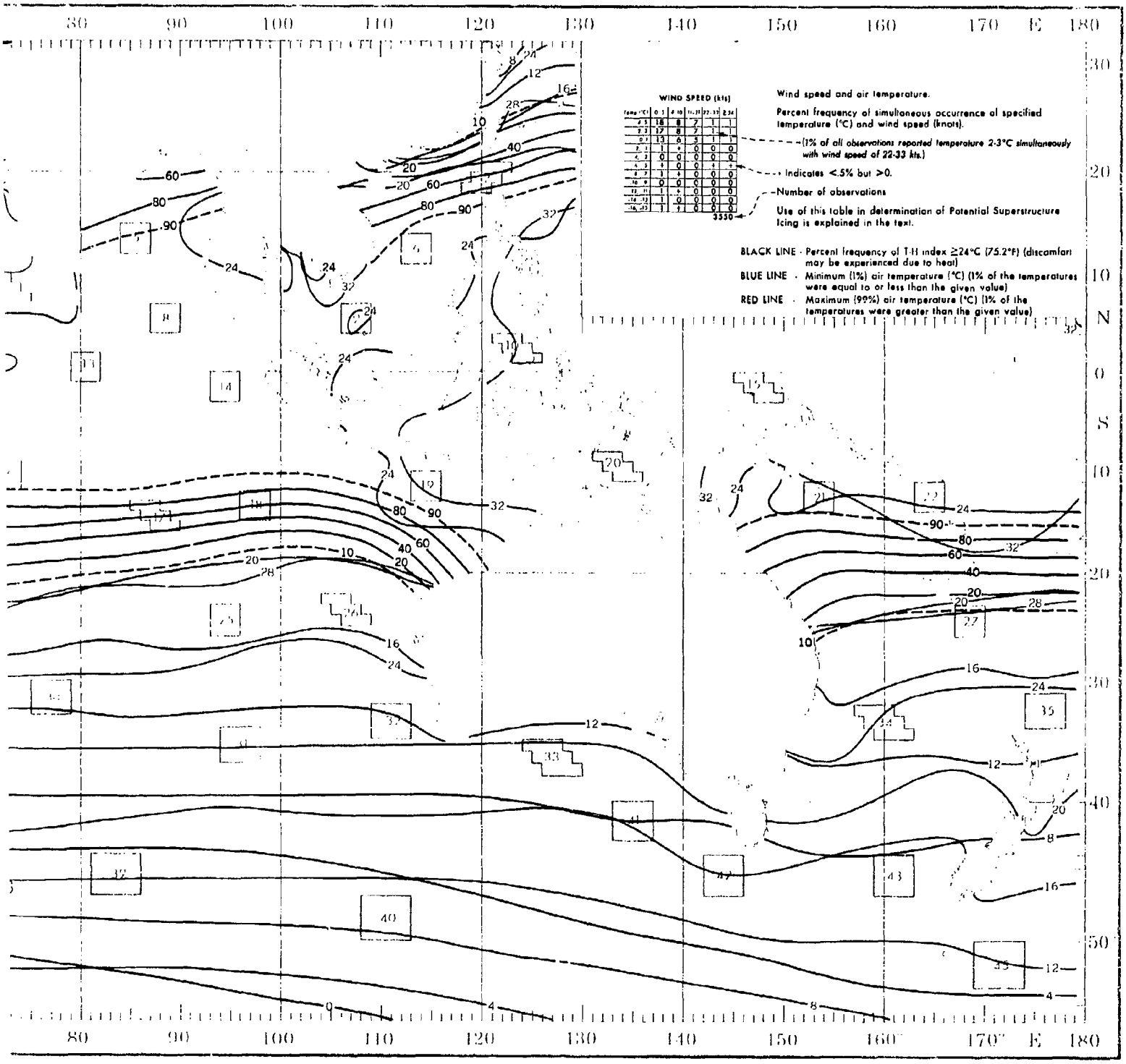
bjective compilation of available data for specified areas without regard to suspected biases.
opposite page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER

TEMPERATURE EX



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

1

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	+	0	0	0	0
34.36	+	+	+	0	0
32.33	1	1	1	+	0
30.31	5	7	2	+	0
28.29	14	25	9	+	+
26.27	5	14	9	1	+
24.26	+	2	2	1	+
22.23	+	+	+	+	0
20.21	+	+	+	0	0
18.19	0	+	0	0	0
16.17	0	0	0	0	0

5931

2

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	+	0
32.33	+	+	+	+	0
30.31	+	1	1	+	+
28.29	+	3	8	4	+
26.27	+	5	19	18	3
24.26	+	2	10	15	3
22.23	+	+	2	4	1
20.21	0	0	+	+	+
18.19	+	0	0	+	+
16.17	0	0	0	0	0
14.16	0	0	0	0	0

7728

3

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	1	+	0	0
28.29	1	9	7	+	0
26.27	5	40	27	1	+
24.26	1	4	3	+	+
22.23	0	+	+	0	0
20.21	0	0	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

7091

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	+	2	2	+	0
28.29	1	13	13	1	0
26.27	4	36	16	1	0
24.26	1	6	2	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

933

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	1	2	1	+	0
28.29	2	19	18	3	+
26.27	3	20	22	3	+
24.26	+	2	2	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

740

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	0	0	0
34.36	0	+	+	0	0
32.33	+	+	1	+	0
30.31	+	2	4	+	0
28.29	1	11	20	4	+
26.27	1	12	23	9	1
24.26	+	1	4	2	+
22.23	0	+	+	+	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6423

10

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	4	4	1	0	0
28.29	20	36	7	0	0
26.27	6	14	4	1	0
24.26	+	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

427

11

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	3	0	0	0
28.29	15	20	4	0	0
26.27	19	27	9	0	0
24.26	+	2	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

260

12

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	+	0	0
30.31	2	4	2	0	0
28.29	8	24	6	+	0
26.27	7	29	12	+	0
24.26	1	2	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

778

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	2	5	1	0	0
28.29	11	19	11	+	0
26.27	11	22	10	1	0
24.26	+	4	2	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

440

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	2	2	1	0	0
28.29	11	18	9	1	0
26.27	11	27	8	2	0
24.26	2	4	1	0	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

784

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	1	0	0	0
32.33	6	7	0	0	0
30.31	6	10	1	0	0
28.29	14	32	3	+	+
26.27	5	8	3	0	0
24.26	1	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

392

19

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	2	0	0	0
30.31	2	7	3	+	0
28.29	4	32	18	1	0
26.27	6	14	9	1	0
24.26	0	0	+	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

270

20

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	0	0	0
30.31	5	6	1	0	0
28.29	24	36	5	0	0
26.27	4	13	3	0	0
24.26	0	1	0	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

515

21

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	+	2	2	+	0
28.29	6	24	9	1	0
26.27	7	28	17	1	+
24.26	1	1	1	+	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0

735

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	4	1	0	0
30.31	4	12	4	+	0
28.29	6	27	14	1	0
26.27	+	9	11	0	0
24.26	0	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

270

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	+	1	+	0	0
30.31	+	1	1	0	0
28.29	3	8	4	0	0
26.27	6	26	15	1	0
24.26	2	15	11	2	+
22.23	+	+	1	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.16	0	0	0	0	0

961

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	0	0	0
28.29	+	1	+	0	0
26.27	2	7	2	1	0
24.26	2	17	17	4	0
22.23	1	15	19	6	+
20.21	+	2	3	2	0
18.18	0	0	0	+	0
18.17	0	0	0	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

628

28

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	+	1	1	+	+
24.26	1	4	4	2	+
22.23	2	10	18	6	1
20.21	1	11	15	5	1
18.19	1	4	4	3	1
18.17	+	1	1	1	+
14.16	0	0	+	+	+
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

2091

29

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	+	+	0
26.27	1	2	2	1	0
24.26	2	8	7	3	1
22.23	2	10	15	8	1
20.21	1	5	14	7	1
18.18	+	2	5	2	0
18.17	0	0	1	0	0
14.16	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

931

30

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	0	+	0	0	0
22.23	0	1	1	0	0
20.21	1	7	4	1	0
18.18	4	19	12	2	0
18.17	4	12	13	4	0
14.16	2	4	6	3	+
12.13	0	0	0	1	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

250

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	1	4	0	0
18.17	0	8	11	5	+
14.16	2	16	22	5	1
12.13	2	6	6	3	1
10.11	0	2	2	+	+
8.9	0	0	1	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

243

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	+	2	2	+	0
18.19	+	8	5	1	+
16.17	1	15	23	4	1
14.15	1	11	13	4	+
12.13	+	1	2	2	1
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

775

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	+	0	0
20.21	+	+	+	+	0
18.19	+	3	3	1	+
16.17	2	10	12	3	+
14.15	4	15	16	5	1
12.13	2	8	8	4	1
10.11	+	1	1	1	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

1881

37

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	0	0	0
20.21	0	+	0	0	0
18.18	0	+	+	+	+
18.17	+	1	2	2	1
14.16	1	1	6	4	1
12.13	1	2	9	5	2
10.11	1	6	9	8	2
8.9	1	3	9	5	3
6.7	1	2	4	4	2
4.5	0	+	1	+	+
2.3	0	0	0	0	+

758

38

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.18	0	+	+	+	0
18.17	+	1	3	5	1
14.16	1	3	10	10	4
12.13	+	6	11	10	4
10.11	1	3	7	6	3
8.9	+	1	3	3	2
6.7	0	0	+	1	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

780

39

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	+	0	0
12.13	0	+	1	1	1
10.11	+	+	8	5	1
8.9	0	0	11	8	3
6.7	1	7	12	7	6
4.5	0	1	5	3	2
2.3	0	+	3	1	3
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

286

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	1	1	6	1
8.9	0	10	19	5	3
6.7	0	8	11	4	1
4.5	0	9	9	3	0
2.3	0	3	6	3	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

80

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	2	1	0	0
14.16	1	8	5	2	0
12.13	2	12	21	9	2
10.11	+	9	16	4	1
8.9	0	2	2	2	+
6.7	0	+	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

248

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	+	0	+	0
14.16	1	1	2	1	0
12.13	0	3	11	4	1
10.11	+	4	26	12	1
8.9	0	3	16	7	3
6.7	0	0	1	+	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

210

Graphs represent the objective compilation of available data for specified areas without regar
The Isopleth analyses (opposite page) are based on all available data subjectively adjusted w

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	+	0	0
30.31	+	2	2	+	0
28.29	1	13	13	1	0
26.27	4	36	16	1	0
24.25	1	6	2	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

933

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	1	2	1	+	0
28.29	2	19	18	3	+
26.27	3	20	22	3	+
24.25	+	2	2	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

740

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
36.37	0	+	0	0	0
34.35	0	+	+	0	0
32.33	+	+	1	+	0
30.31	+	2	4	+	0
28.29	1	11	20	4	+
26.27	1	12	23	9	1
24.25	+	1	4	2	+
22.23	0	+	+	+	+
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0

6423

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	0	0
32.33	+	+	+	0	0
30.31	2	3	+	0	0
28.29	15	28	6	+	0
26.27	15	24	4	+	0
24.25	+	2	1	+	0
22.23	+	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

7743

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	0	0
32.33	+	+	+	+	0
30.31	1	2	1	+	0
28.29	7	21	9	1	0
26.27	10	27	13	2	+
24.25	+	3	1	+	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4426

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	+	1	+	0	0
30.31	1	3	1	+	0
28.29	7	18	8	+	0
26.27	8	28	15	2	+
24.25	+	3	2	+	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4918

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	2	5	1	0	0
28.29	11	19	11	+	0
26.27	11	22	10	1	0
24.25	+	4	2	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

440

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	0	+	0	0
30.31	2	2	1	0	0
28.29	11	18	9	1	0
26.27	11	27	8	2	0
24.25	2	4	1	0	0
22.23	0	0	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

784

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	1	0	0	0
32.33	6	7	0	0	0
30.31	6	10	1	0	0
28.29	14	32	3	+	+
26.27	5	8	3	0	0
24.25	1	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

392

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	0	0	0
30.31	+	1	1	+	0
28.29	1	12	10	+	0
26.27	2	28	28	3	0
24.25	+	5	5	1	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

406

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	+	1	+	0
28.29	+	1	7	2	0
26.27	0	8	32	11	1
24.25	+	6	21	8	1
22.23	0	1	1	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

758

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	1	+	0	0
28.29	0	2	5	1	0
26.27	1	11	34	10	1
24.25	0	4	26	4	+
22.23	0	+	1	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

670

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	0	0	0
32.33	1	4	1	0	0
30.31	4	12	4	+	0
28.29	6	27	14	1	0
26.27	+	9	11	0	0
24.25	0	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

270

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	1	+	0	0
30.31	+	1	1	0	0
28.29	3	8	4	0	0
26.27	6	26	15	1	0
24.25	2	16	11	2	+
22.23	+	+	1	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

961

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	0	0	0
28.29	+	1	+	0	0
26.27	2	7	2	1	0
24.25	2	17	17	4	0
22.23	1	15	19	6	+
20.21	+	2	3	2	0
18.19	0	0	0	+	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

628

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	1	+	0	0
24.25	+	1	1	0	0
22.23	2	11	11	2	0
20.21	2	13	27	3	0
18.19	1	8	12	1	0
16.17	0	0	2	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

217

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	0	0	+	0	0
24.25	+	2	2	0	0
22.23	1	11	13	2	+
20.21	1	15	30	5	+
18.19	+	4	10	1	+
16.17	0	+	1	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

487

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	1	0	1	0	0
26.27	1	3	1	+	0
24.25	3	9	9	0	0
22.23	3	25	21	1	0
20.21	+	8	12	1	0
18.19	0	1	1	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

384

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	1	4	0	0
16.17	0	8	11	5	+
14.15	2	16	22	5	1
12.13	2	6	8	3	1
10.11	0	2	2	+	+
8.9	0	0	1	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-1.-2	0	0	0	0	0

243

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	+	+	0	0
20.21	+	2	2	+	0
18.19	+	8	5	1	+
16.17	1	15	23	4	1
14.15	1	11	13	4	+
12.13	+	1	2	2	1
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

775

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	+	0	0
20.21	+	+	+	+	0
18.19	+	3	3	1	+
16.17	2	10	12	3	+
14.15	4	15	16	5	1
12.13	2	8	8	4	1
10.11	+	1	1	1	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

1881

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	0	0	0
22.23	1	2	2	2	+
20.21	+	8	9	3	+
18.19	2	12	15	6	+
16.17	1	10	18	5	1
14.15	0	+	2	1	2
12.13	0	+	+	0	+
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

516

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	2	2	1	0	0
20.21	2	7	5	+	+
18.19	4	18	21	5	1
16.17	3	12	11	3	0
14.15	+	3	2	1	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

378

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	0	0	0
18.19	0	+	1	1	0
16.17	0	1	2	2	+
14.15	+	3	5	3	1
12.13	+	5	10	10	2
10.11	1	4	10	8	3
8.9	+	4	8	7	2
6.7	+	1	3	2	1
4.5	0	0	+	+	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0

736

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	1	1	0	1
8.9	0	10	19	5	3
6.7	0	8	11	4	1
4.5	0	9	9	3	0
2.3	0	3	5	3	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

80

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	2	1	0	0
14.15	1	6	5	2	0
12.13	2	12	21	9	2
10.11	+	8	18	4	1
8.9	0	2	2	2	+
6.7	0	+	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

248

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	+	0	+	0
14.15	1	1	2	1	0
12.13	0	3	11	4	1
10.11	+	4	26	12	1
8.9	0	3	16	7	3
6.7	0	0	1	+	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

210

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.17	0	0	1	0	0
14.15	1	4	4	1	0
12.13	1	8	16	8	2
10.11	0	9	21	8	3
8.9	0	2	7	4	0
6.7	0	0	0	1	0
4.5	0	0	0	1	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0

197

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
10.11	0	1	1	0	0
8.9	0	3	1	3	7
6.7	0	1	7	4	1
4.5	0	4	5	16	5
2.3	0	5	17	15	1
0.1	0	0	0	1	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0
-10.-9	0	0	0	0	0

75

45

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	0	1	0
12.13	0	0	1	0	0
10.11	1	4	8	2	0
8.9	1	4	18	18	9
6.7	0	2	11	13	4
4.5	0	1	0	2	1
2.3	0	0	1	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

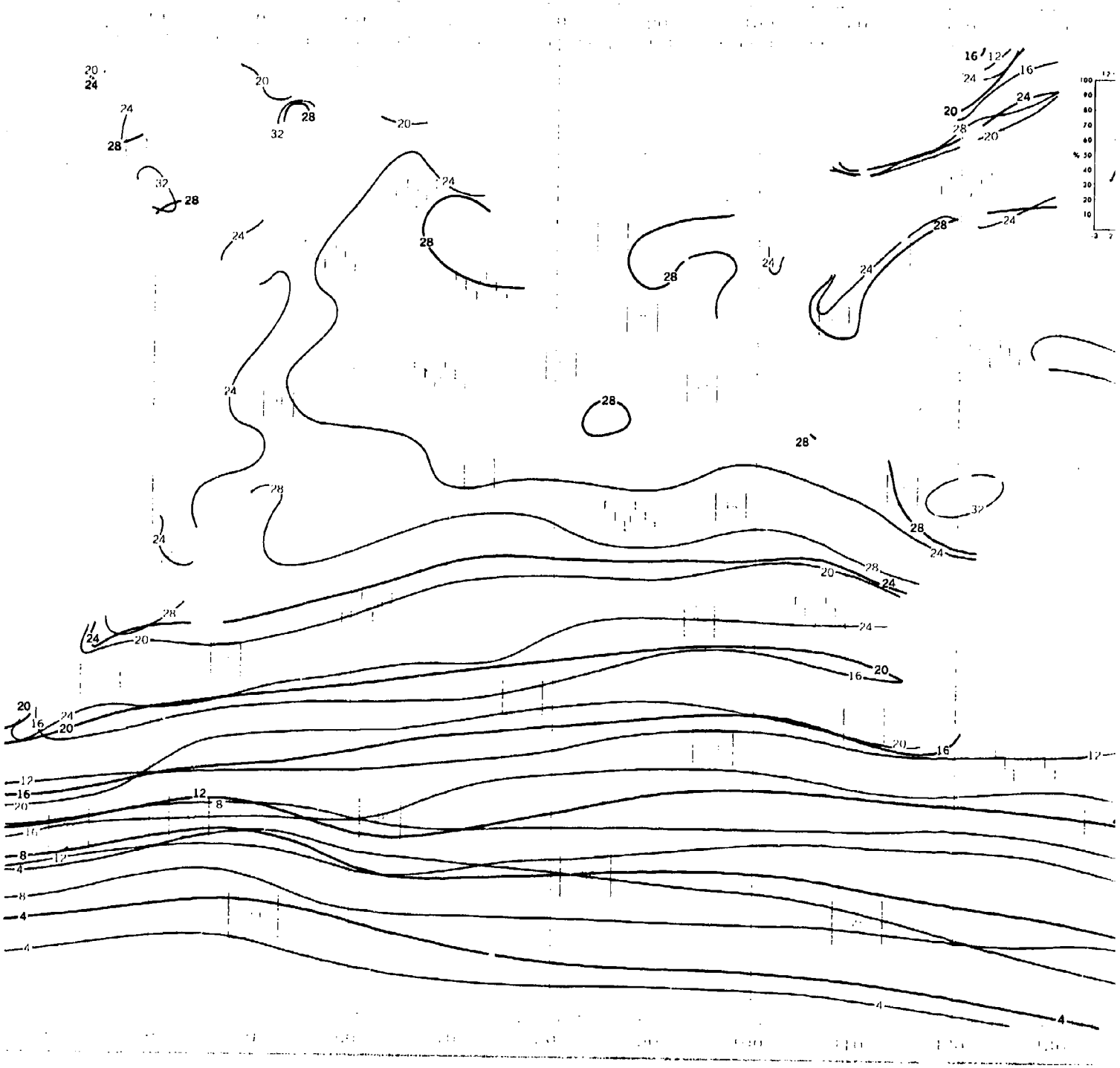
161

jective compilation of available data for specified areas without regard to suspected biases.

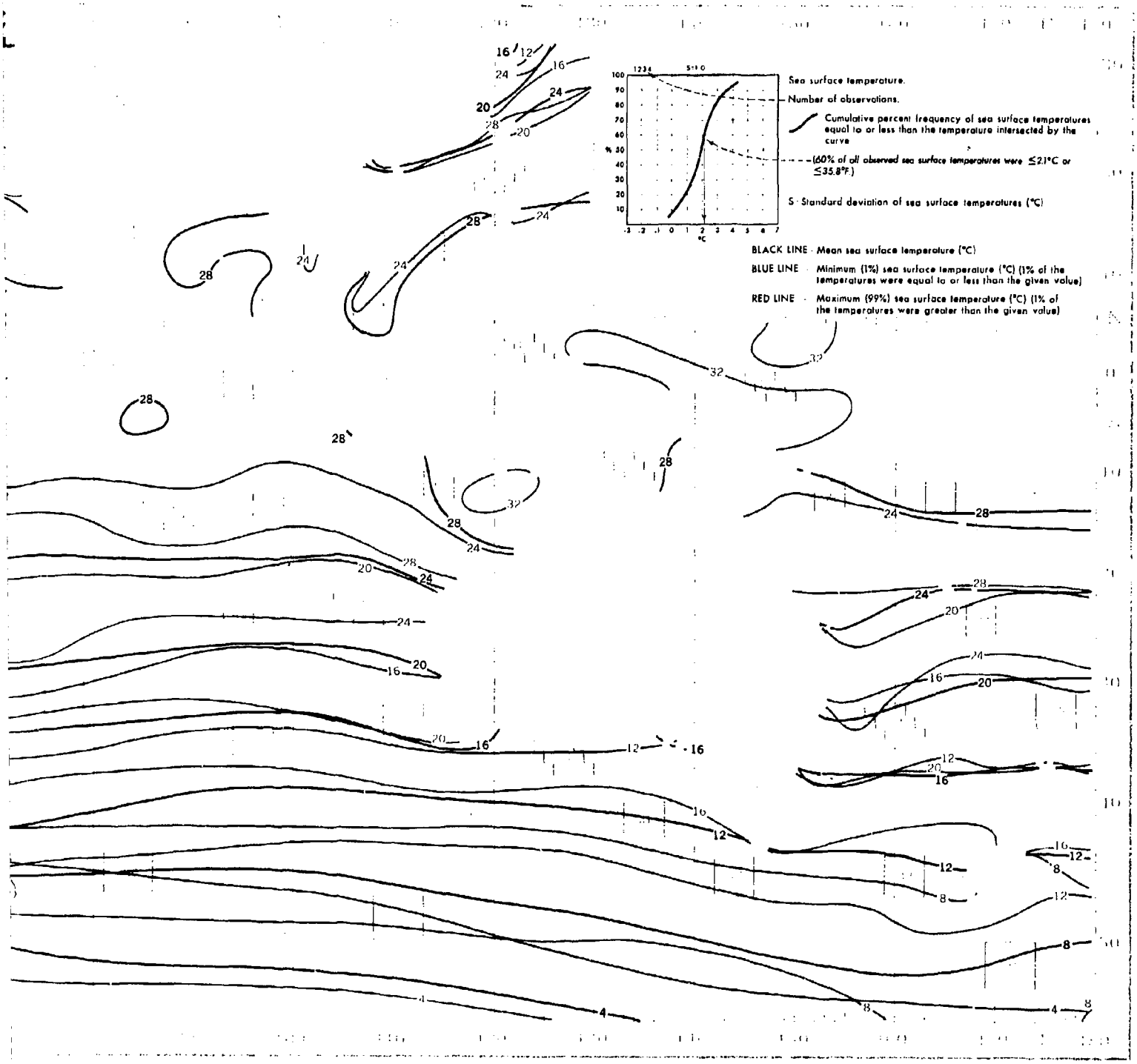
pposite page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER

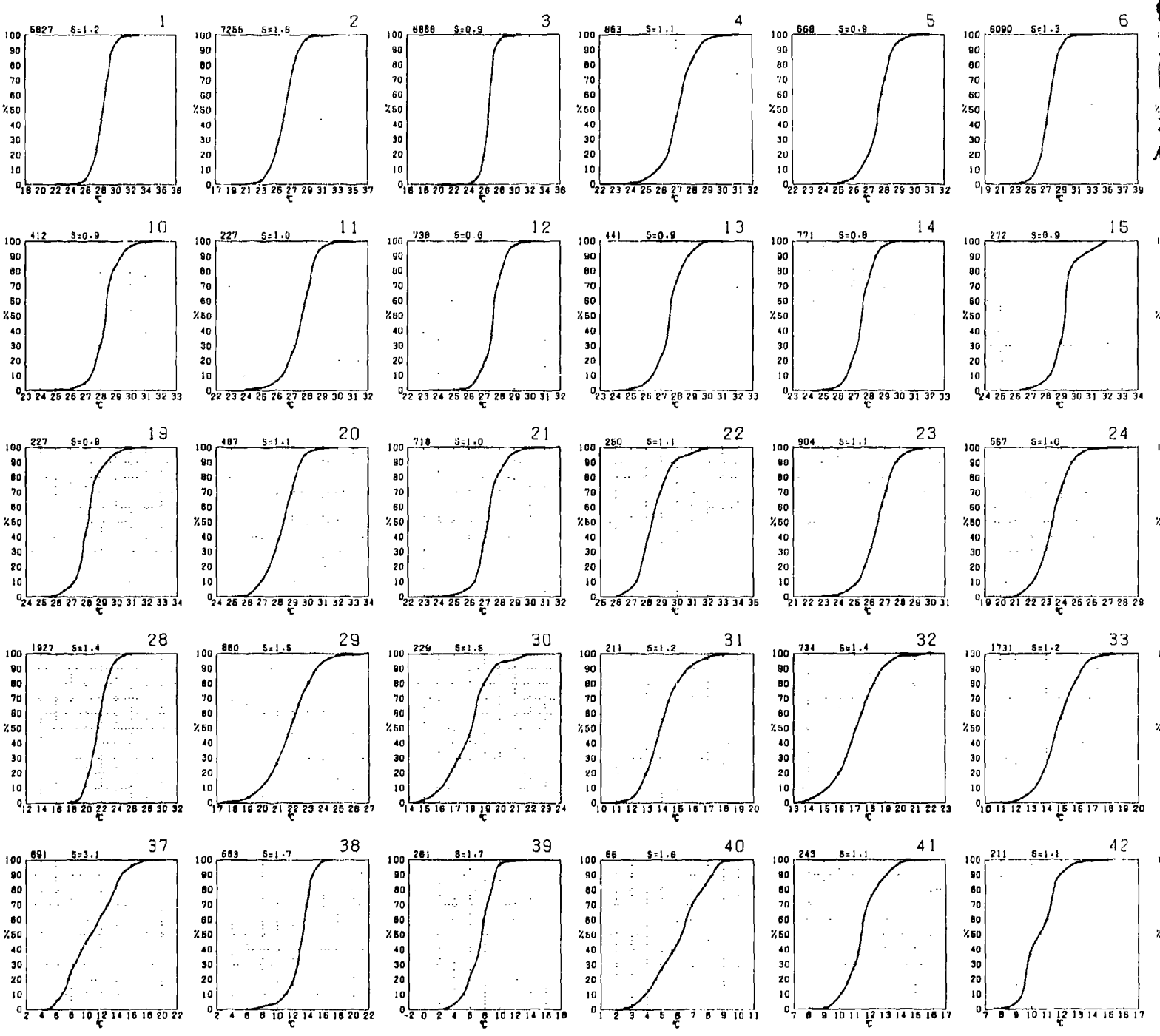
SEA



SEA SURFACE TEMPERATURE

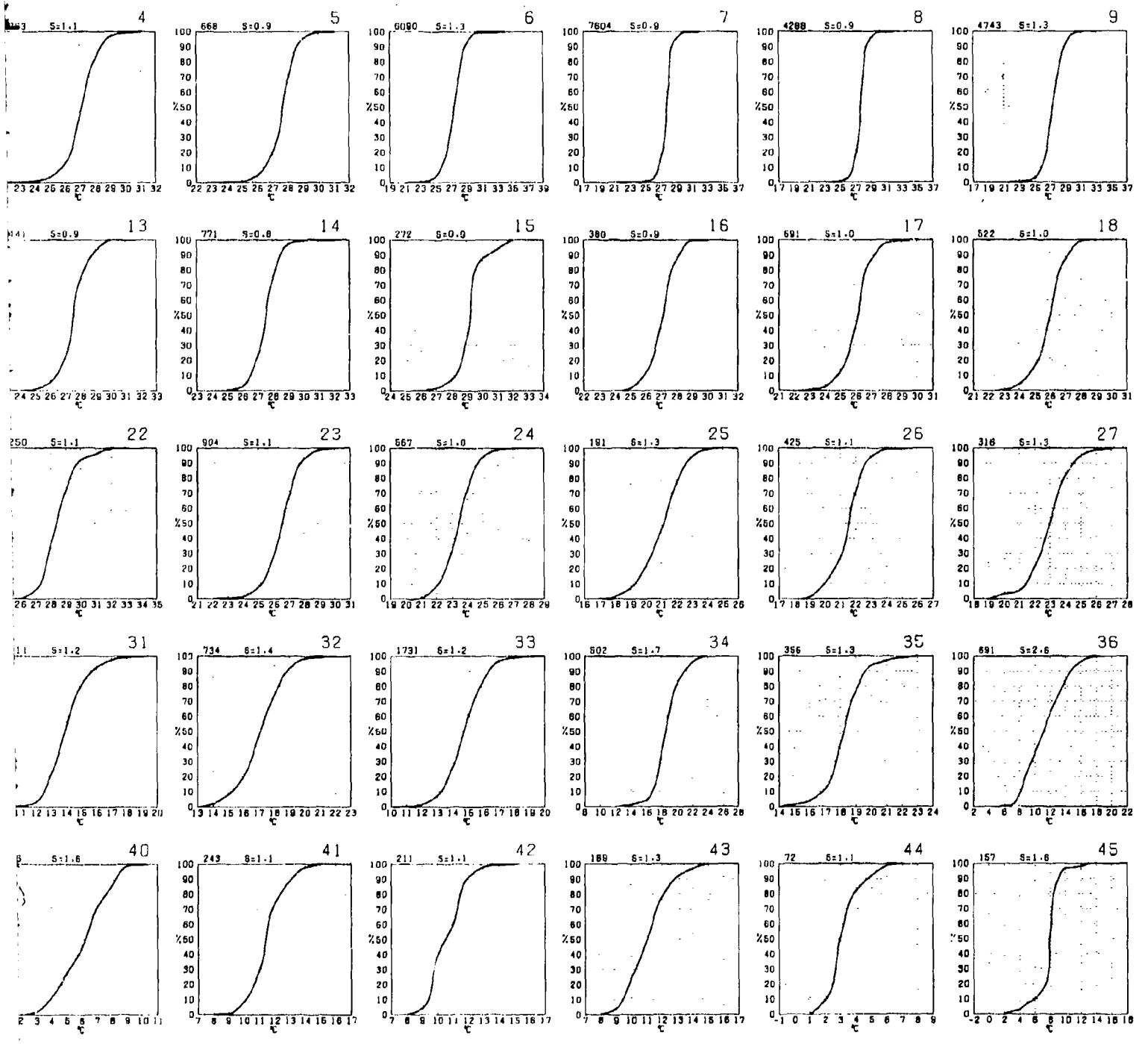


SEA SURFACE TEMPERATURE



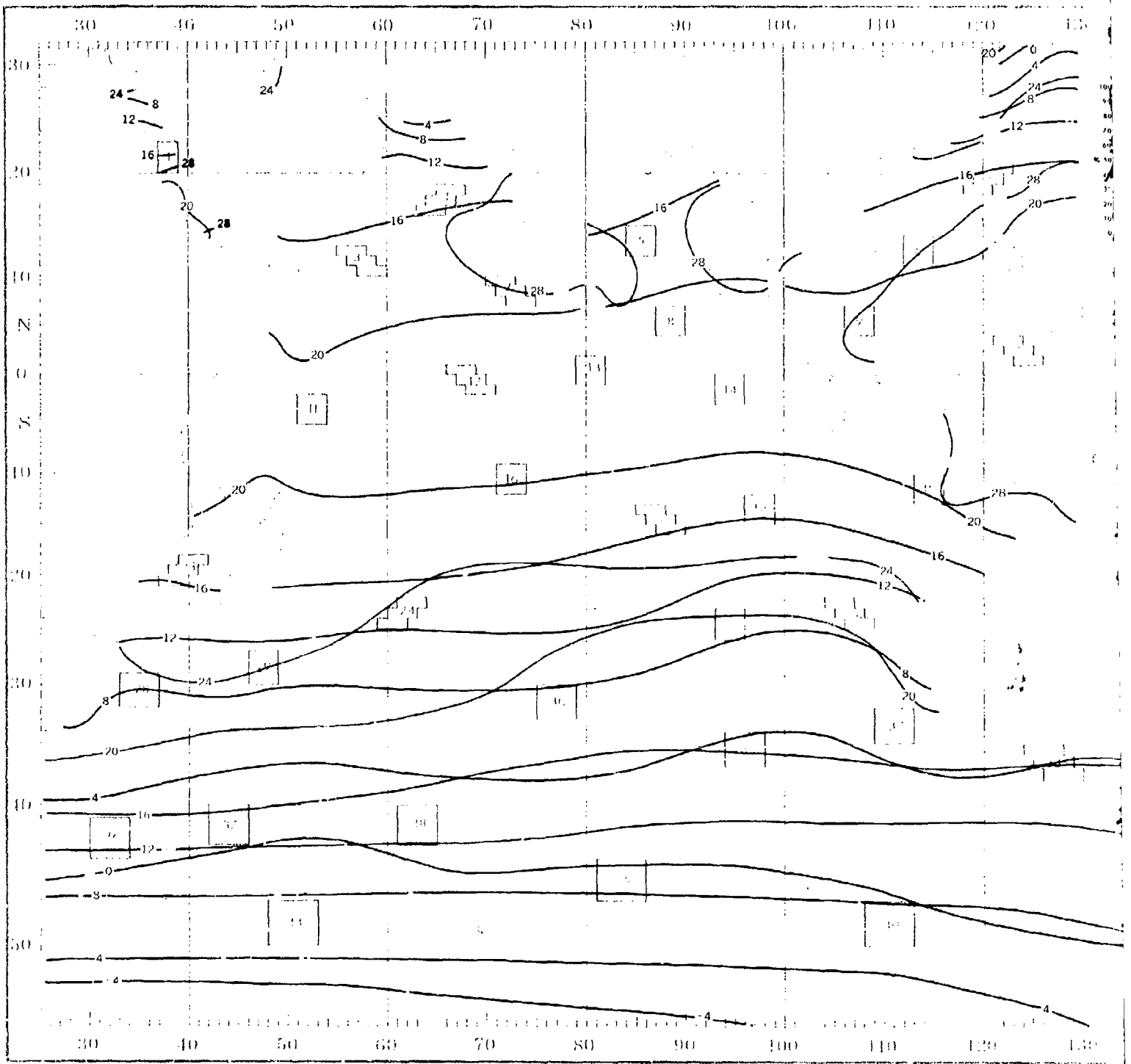
Graphs represent the objective compilation of available data for specified areas without regar
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

NOVEMBER

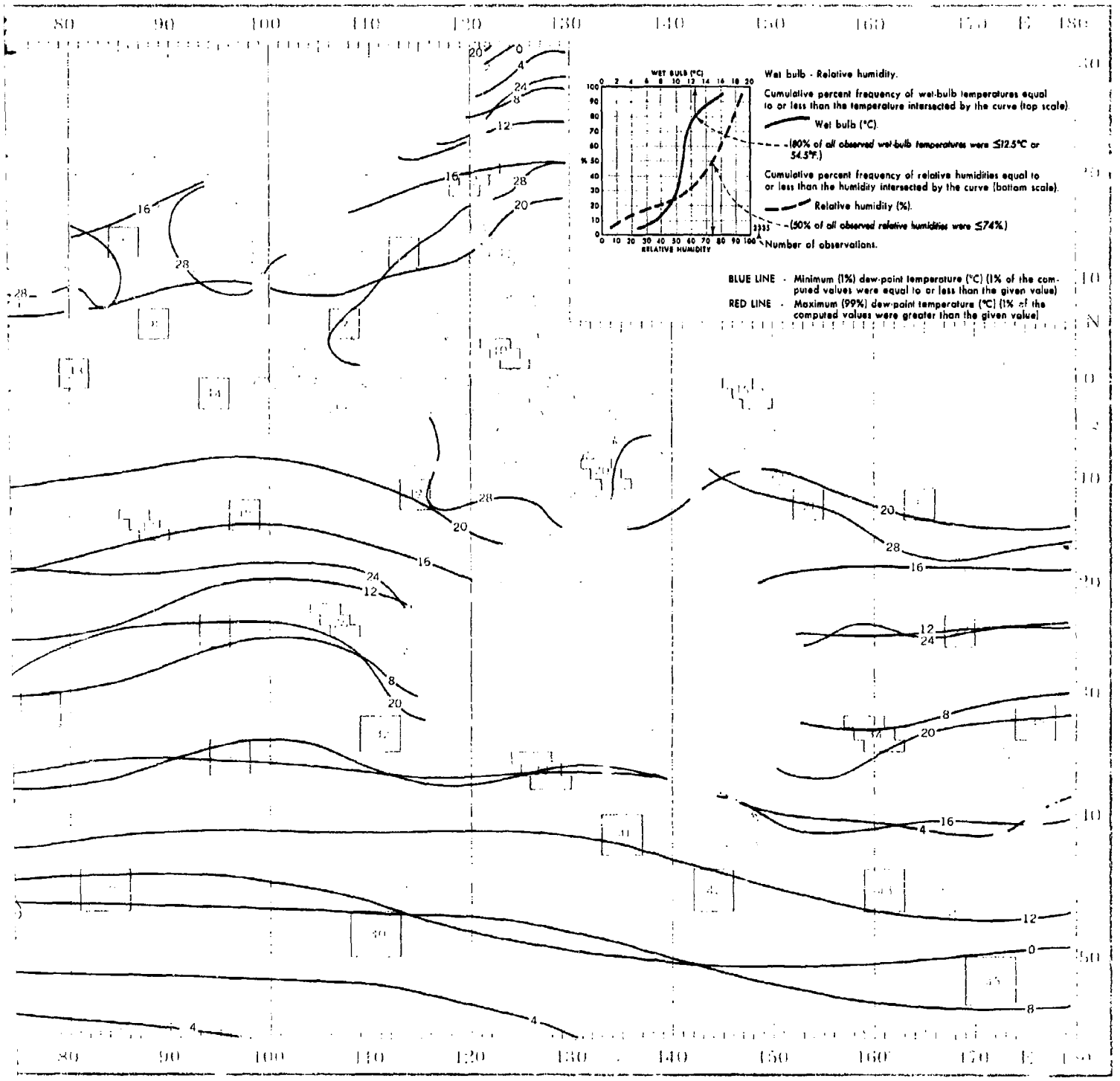


ve compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

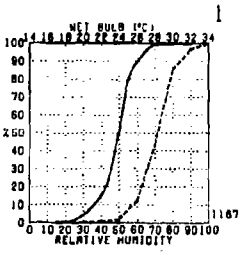
NOVEMBER

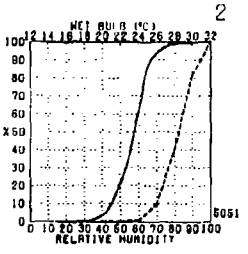


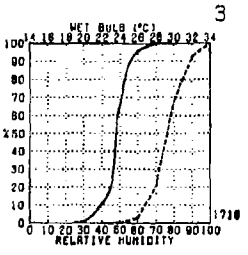
HUMIDITY

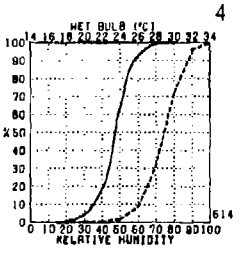

WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity.
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale).
Wet bulb (°C).
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale).
Relative humidity (%).
(50% of all observed relative humidities were ≤74%.)
Number of observations.
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew-point temperature (°C) (1% of the computed values were greater than the given value)

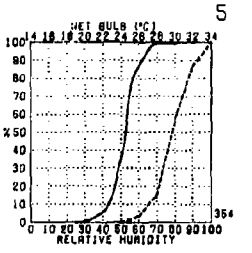
WET BULB AND RELATIVE HUMIDITY

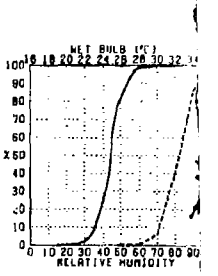


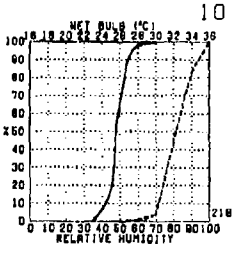


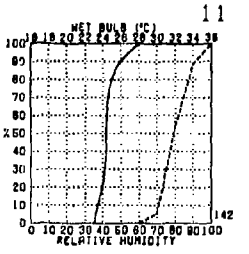


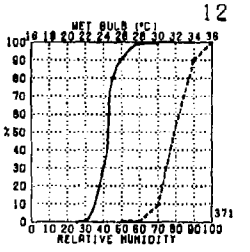


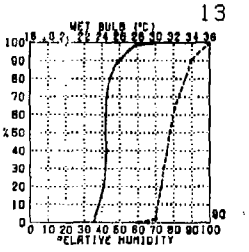


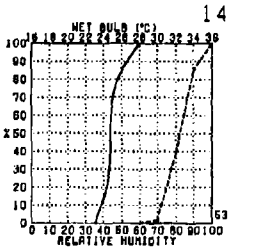


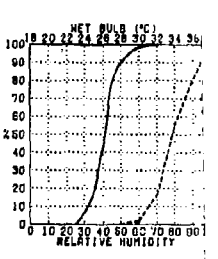


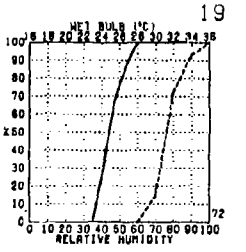


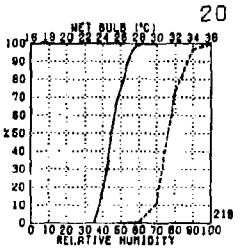


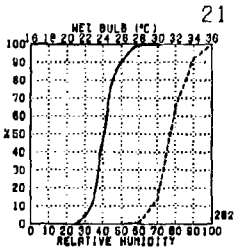


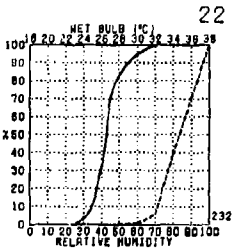


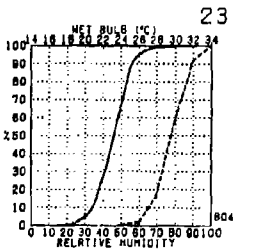


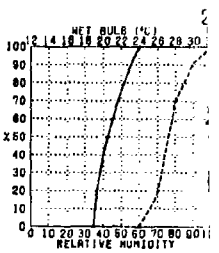


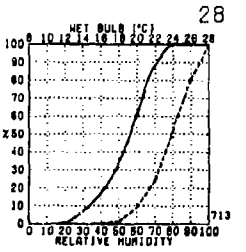


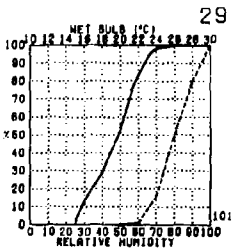


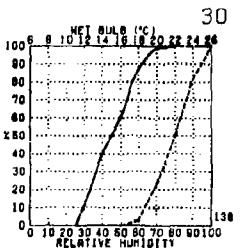


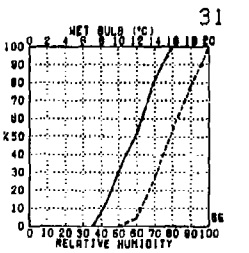


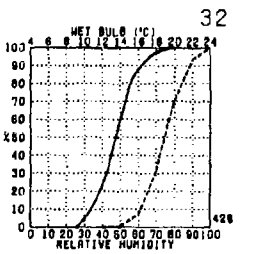


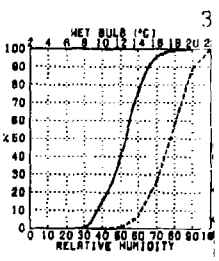


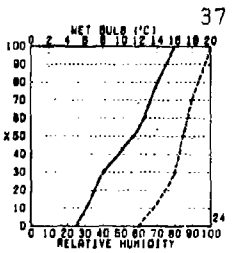


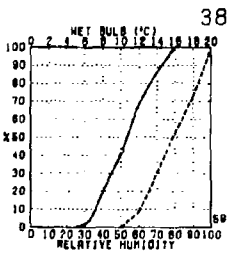


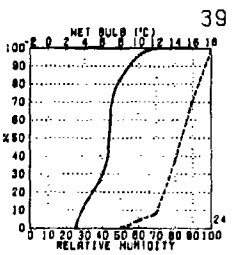












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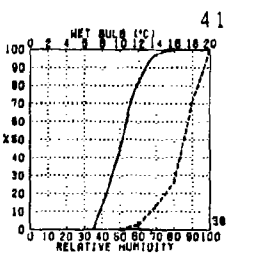
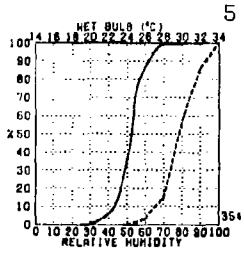
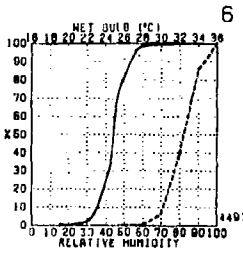
INSUFFICIENT DATA

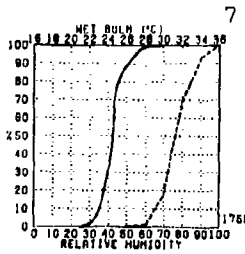


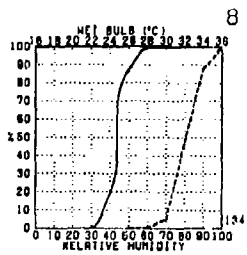
INSUFFICIENT DATA

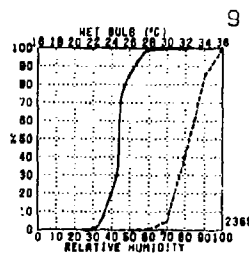
Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

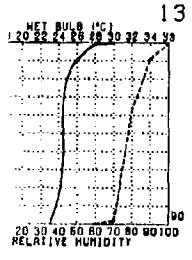


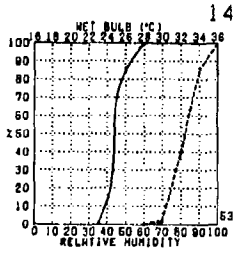


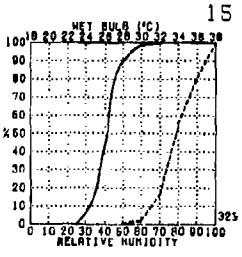


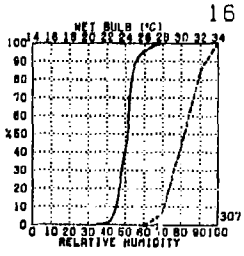


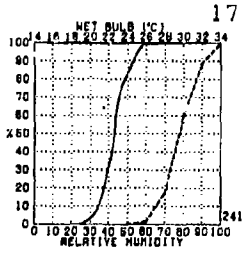


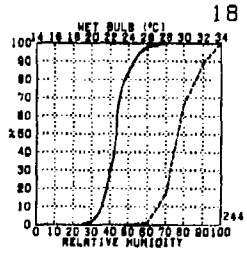


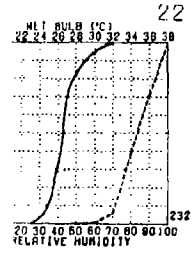


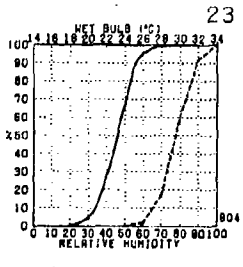


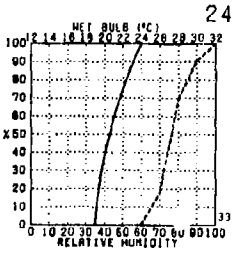


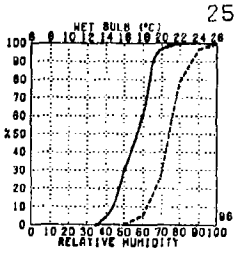


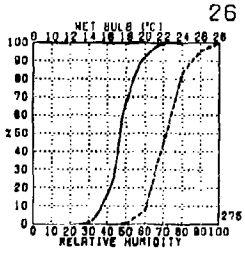


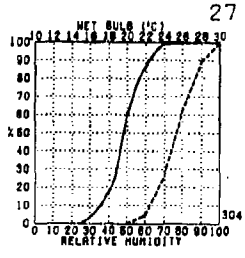


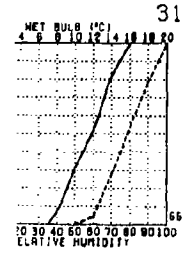


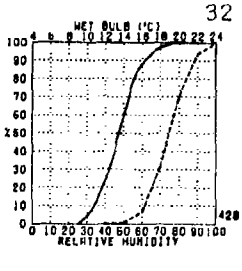


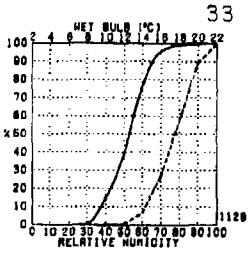


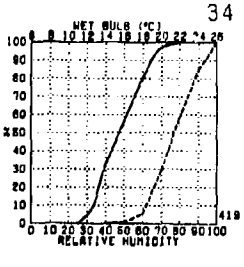


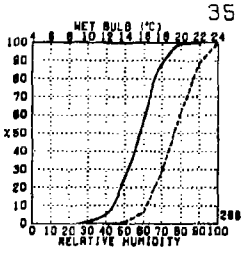


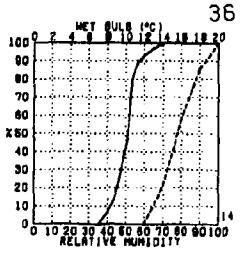












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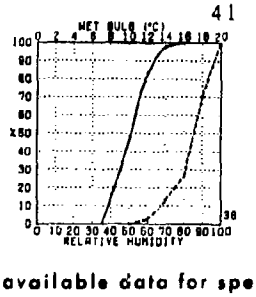

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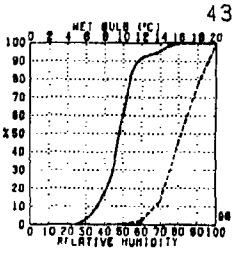

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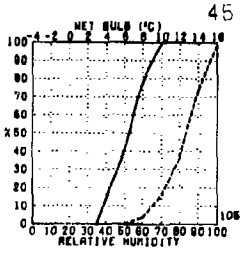

compilation of available data for specified areas without regard to suspected biases.
page) are based on all available data subjectively adjusted where bias was evident.

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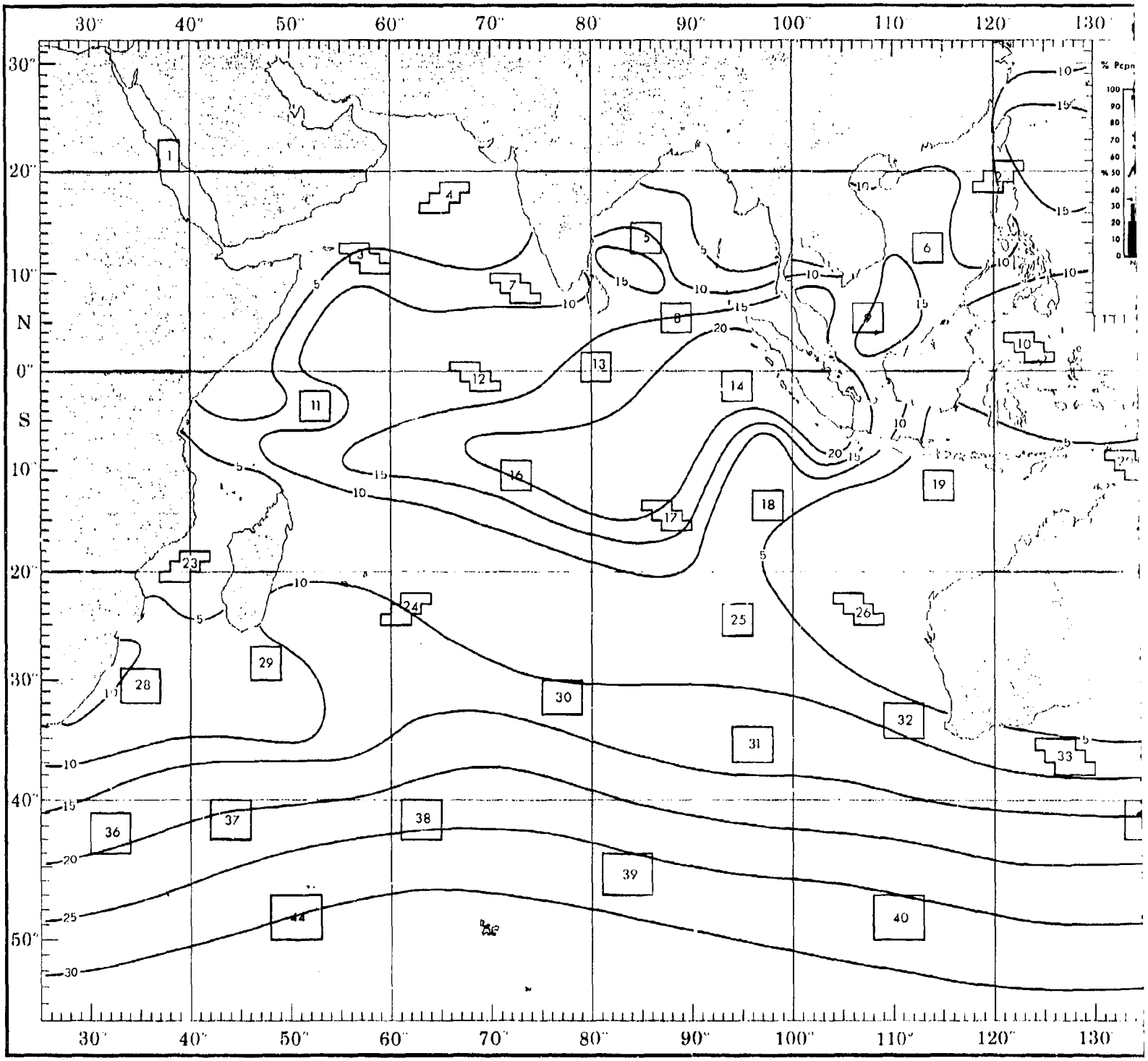
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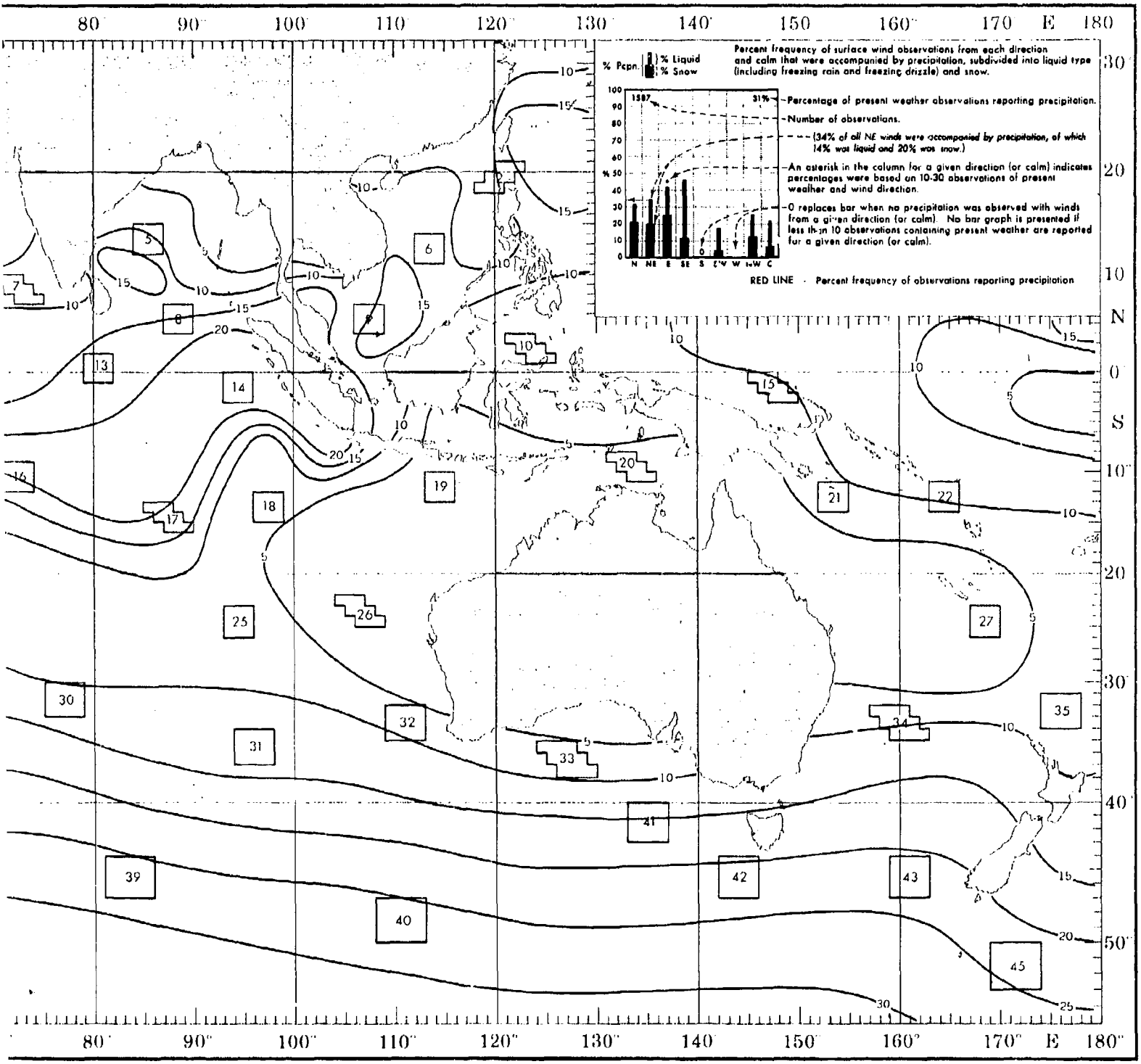
PRECIPITATION



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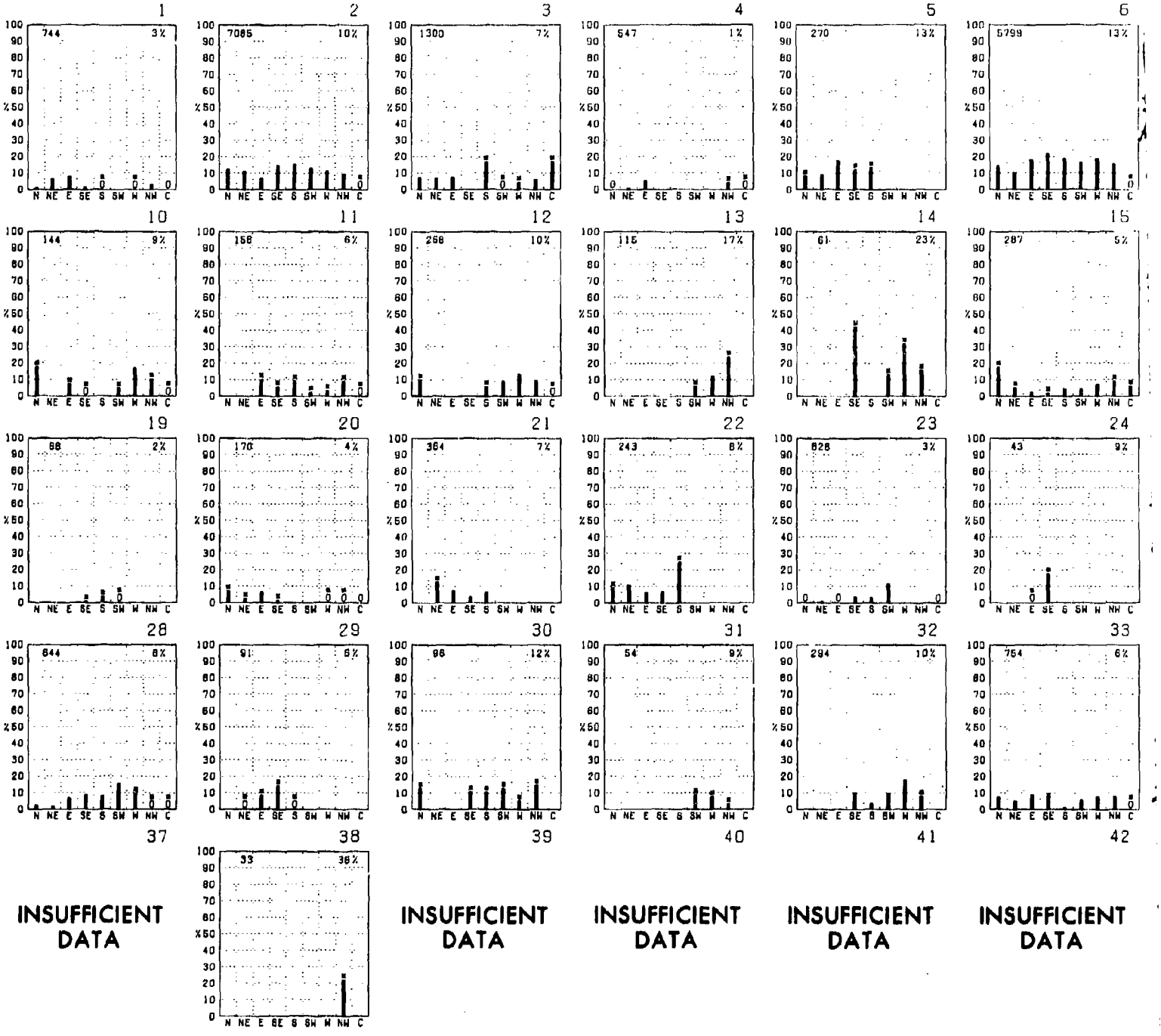

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Graphs represent the objective compilation of available data for specified areas without rega
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

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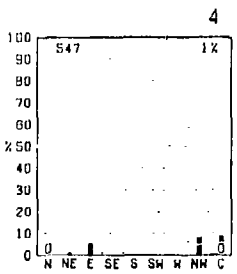

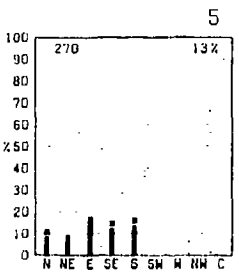

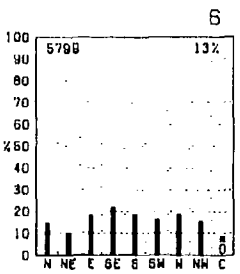

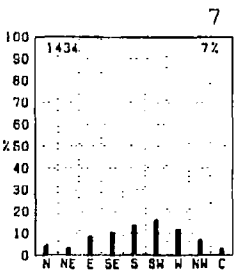

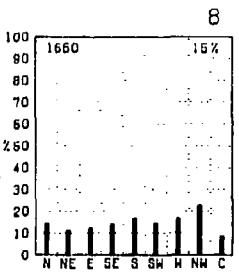

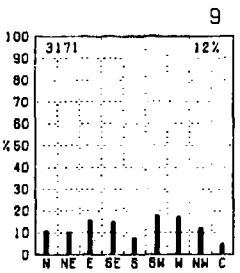

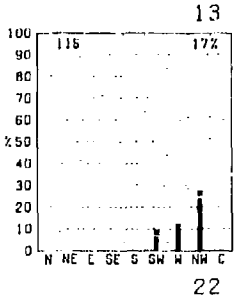

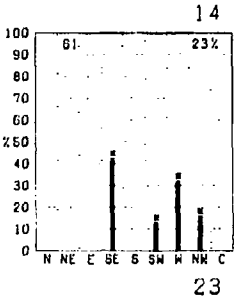

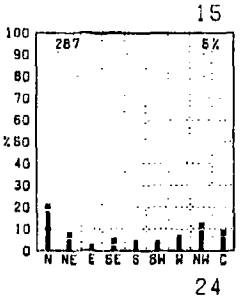

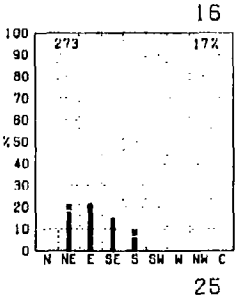

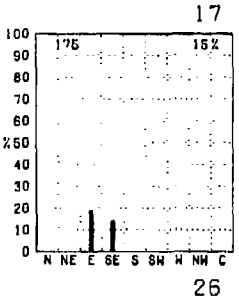

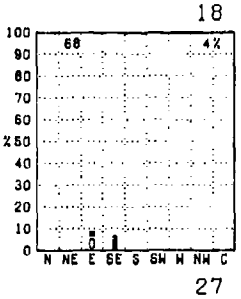

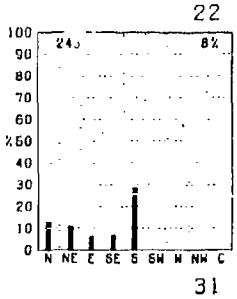

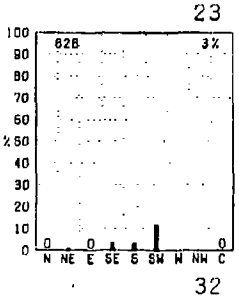

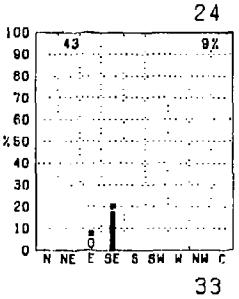

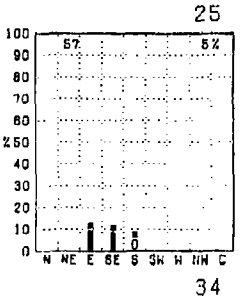

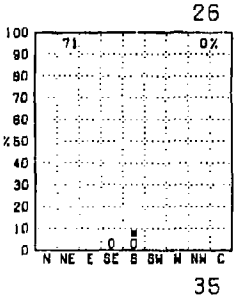

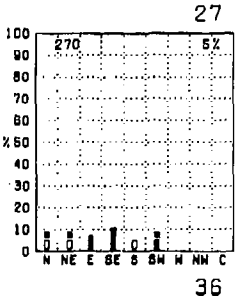

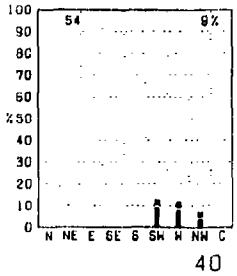

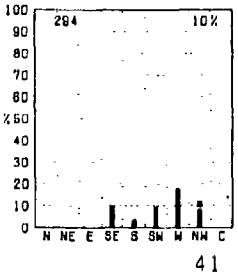

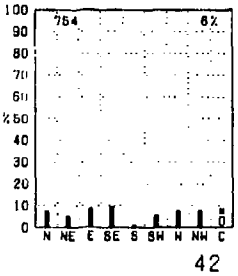

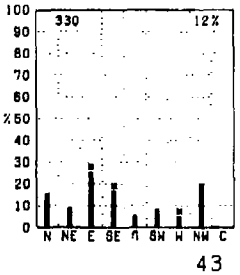

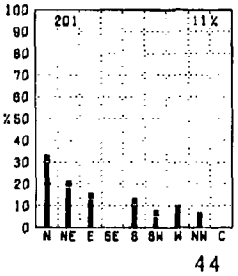

36

INSUFFICIENT DATA

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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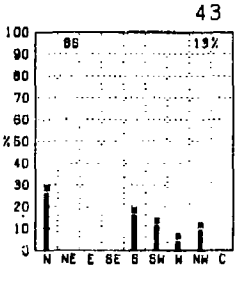
INSUFFICIENT DATA



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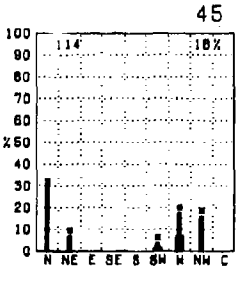

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opposite page) are based on all available data subjectively adjusted where bias was evident.

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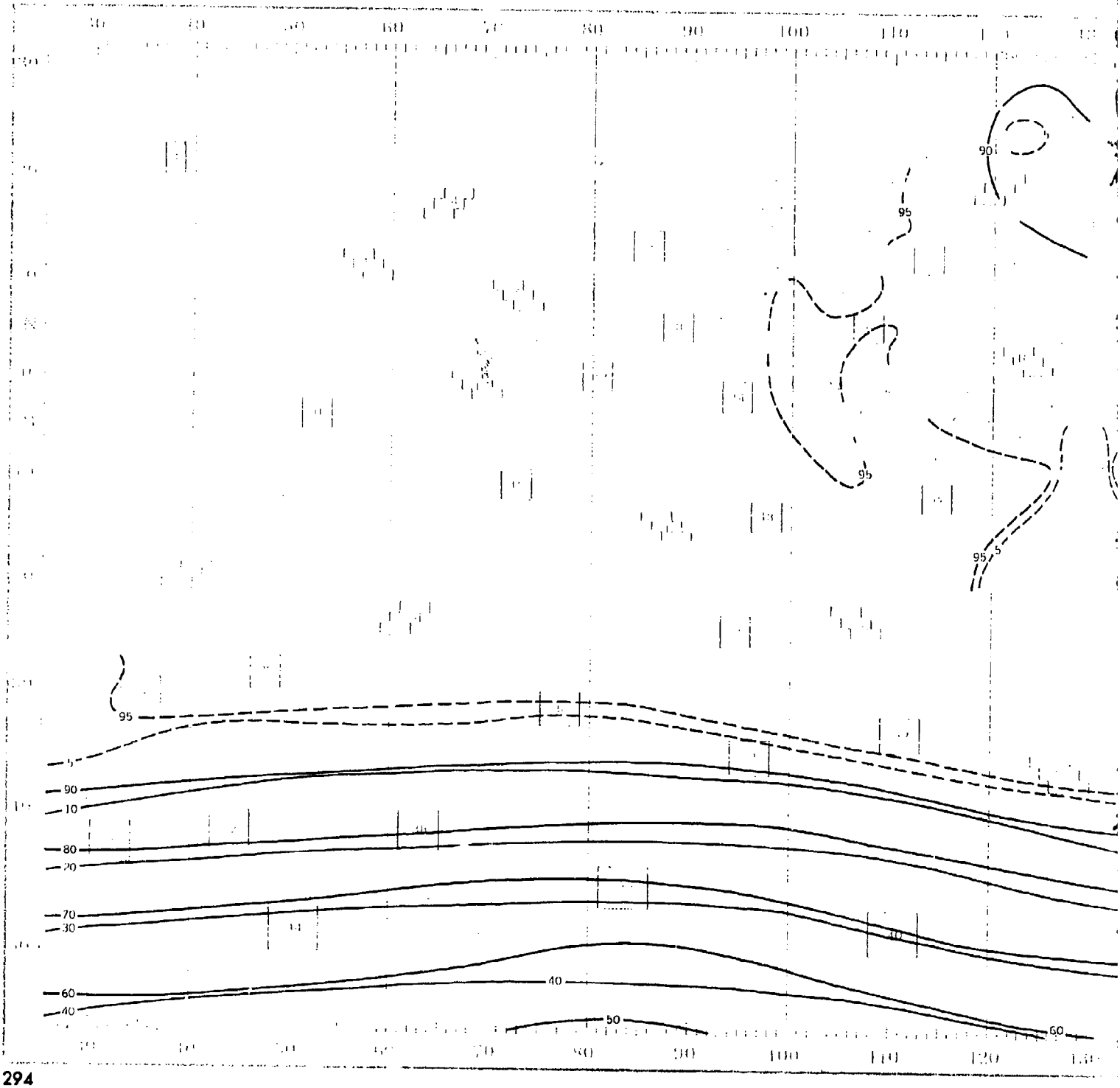
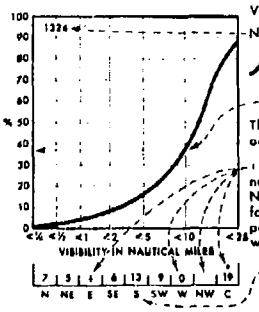


VISIBILITY



Visibility.

Number of observations.

Cumulative percent frequency of visibilities less than the visibility intersected by the curve.

(37% of *all visibilities reported were <10 nautical miles.*)

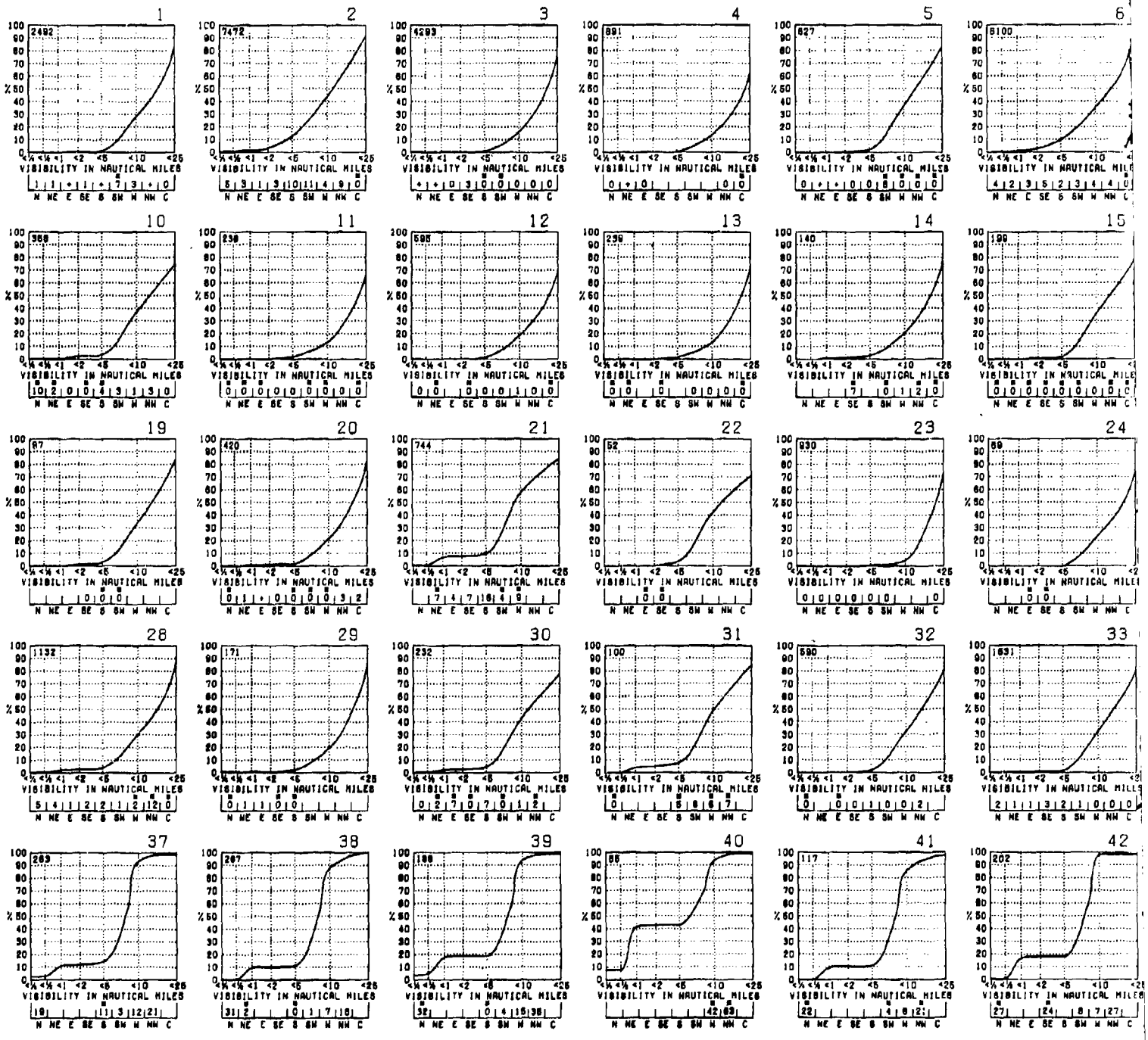
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction. t indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.

(13% of *all S winds were accompanied by visibilities <2 nautical miles.*)

BLUE LINE - Percent frequency of visibilities ≥5 nautical miles

RED LINE - Percent frequency of visibilities <2 nautical miles

VISIBILITY



Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

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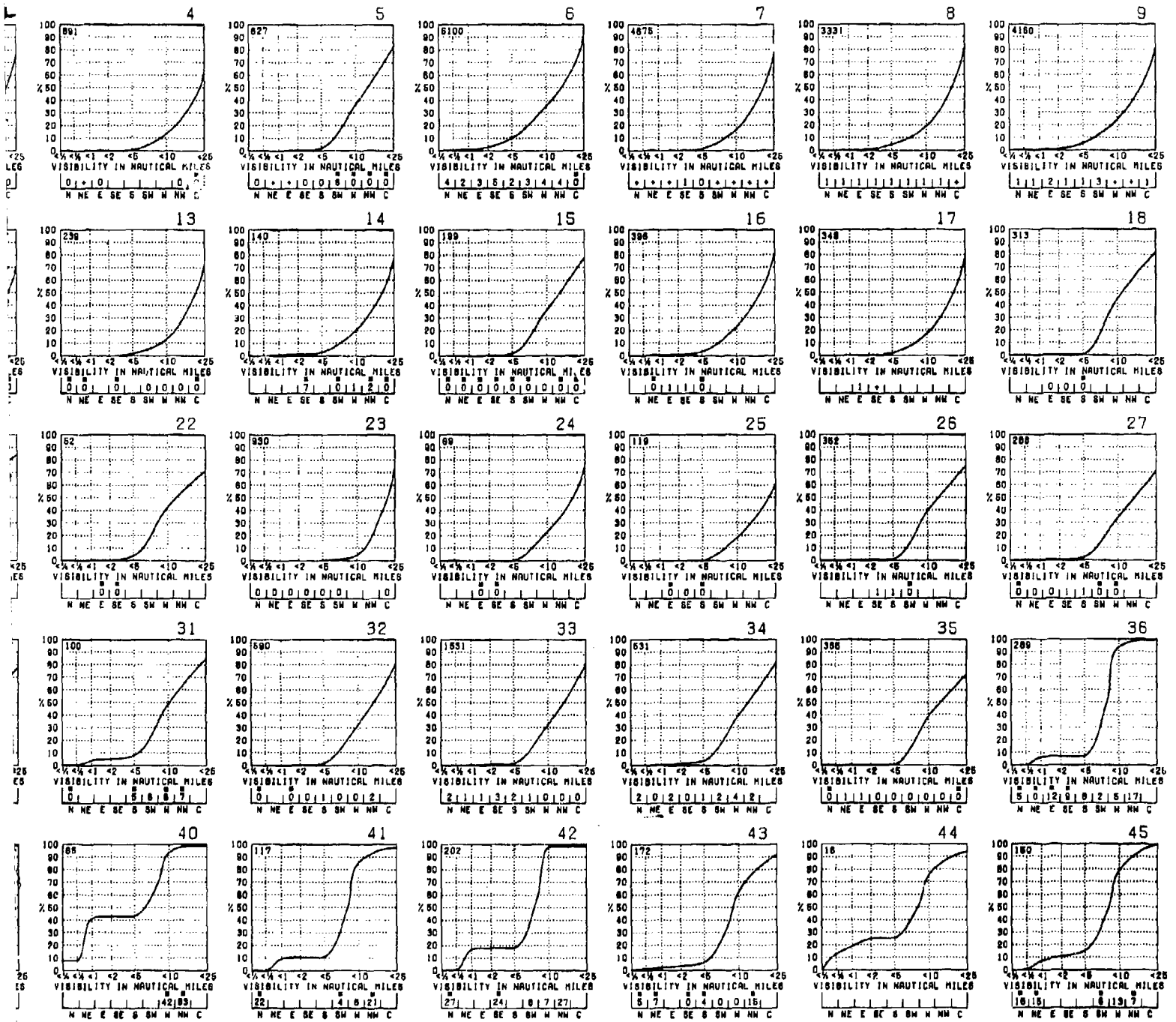

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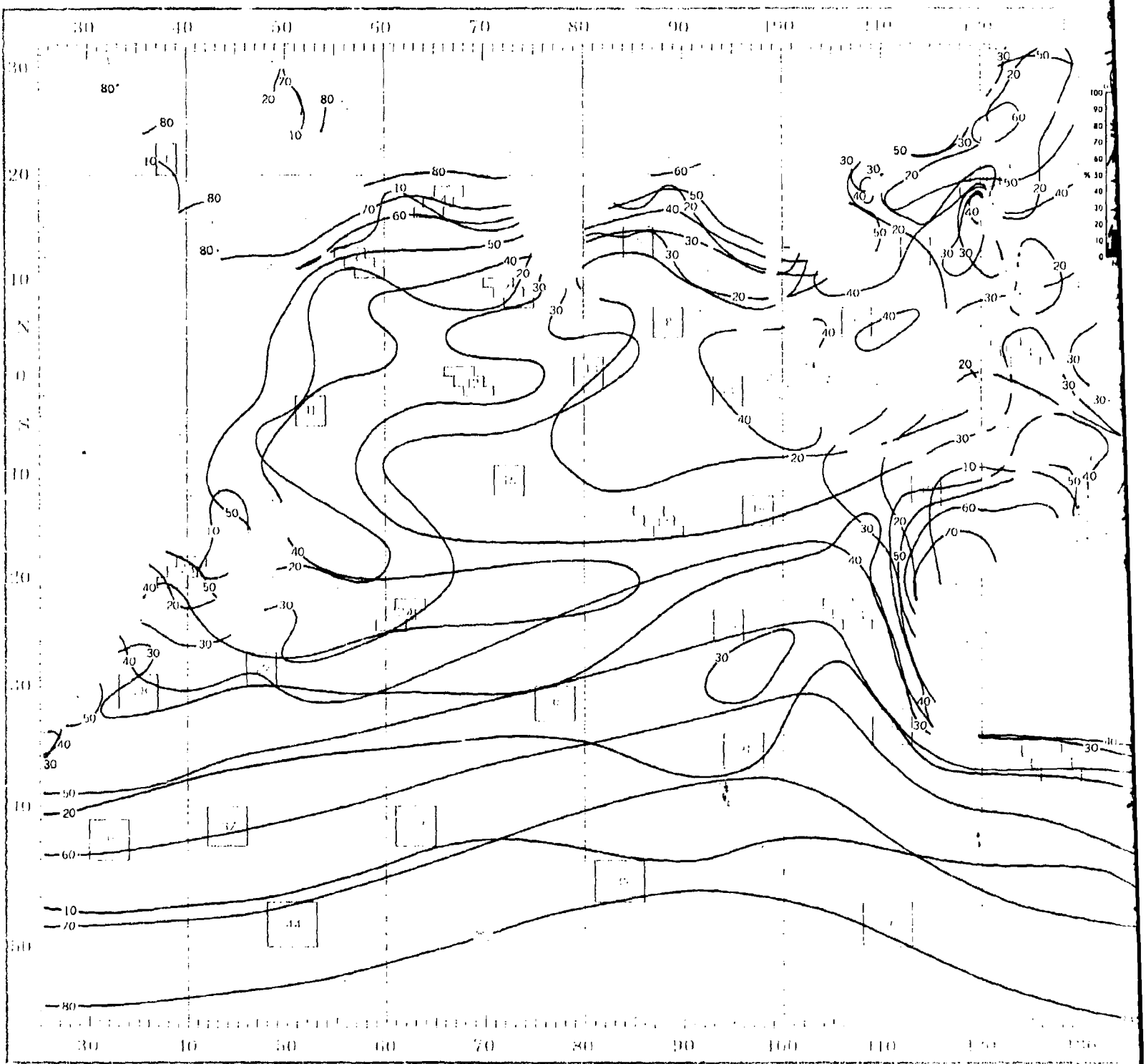
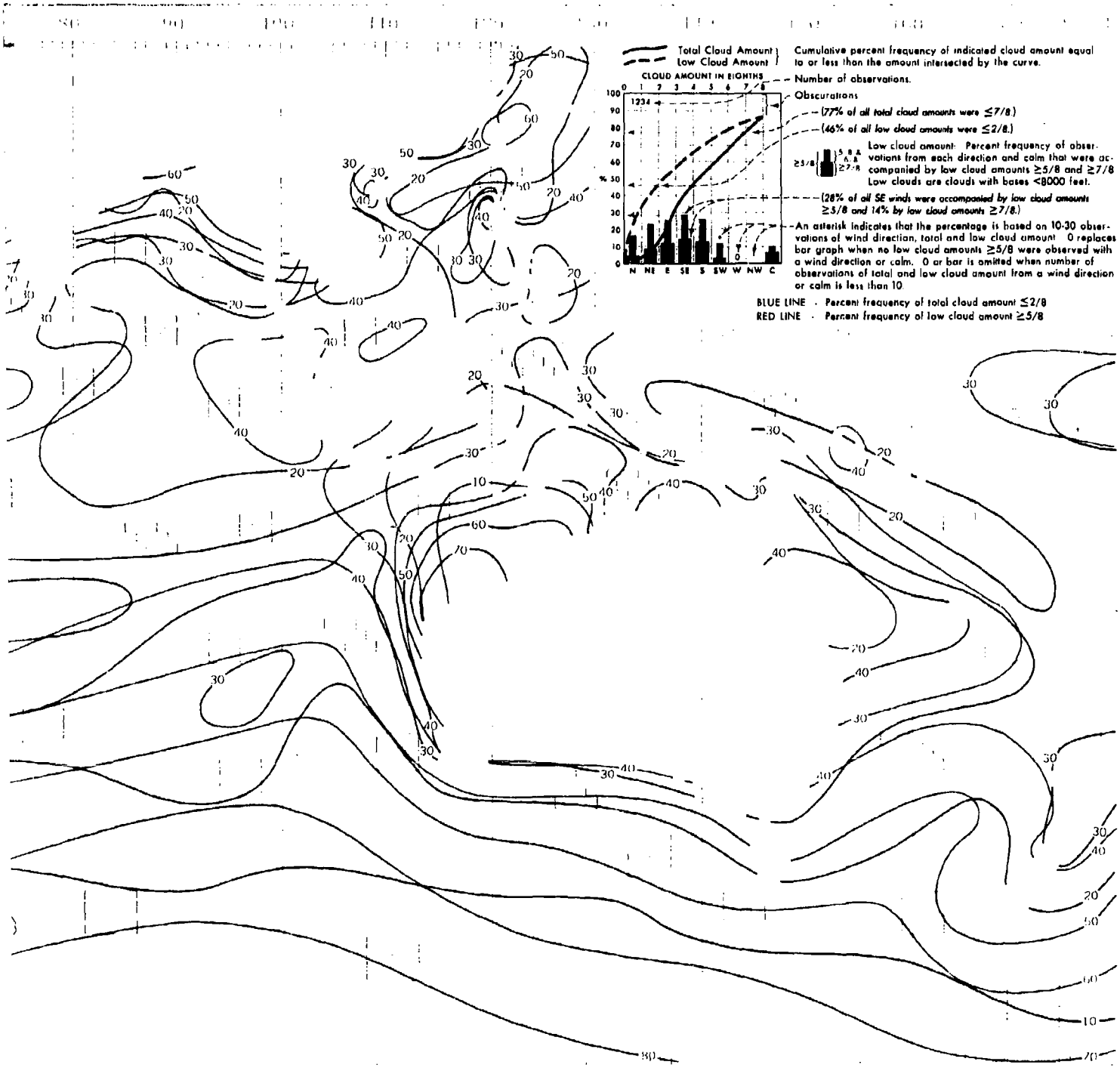
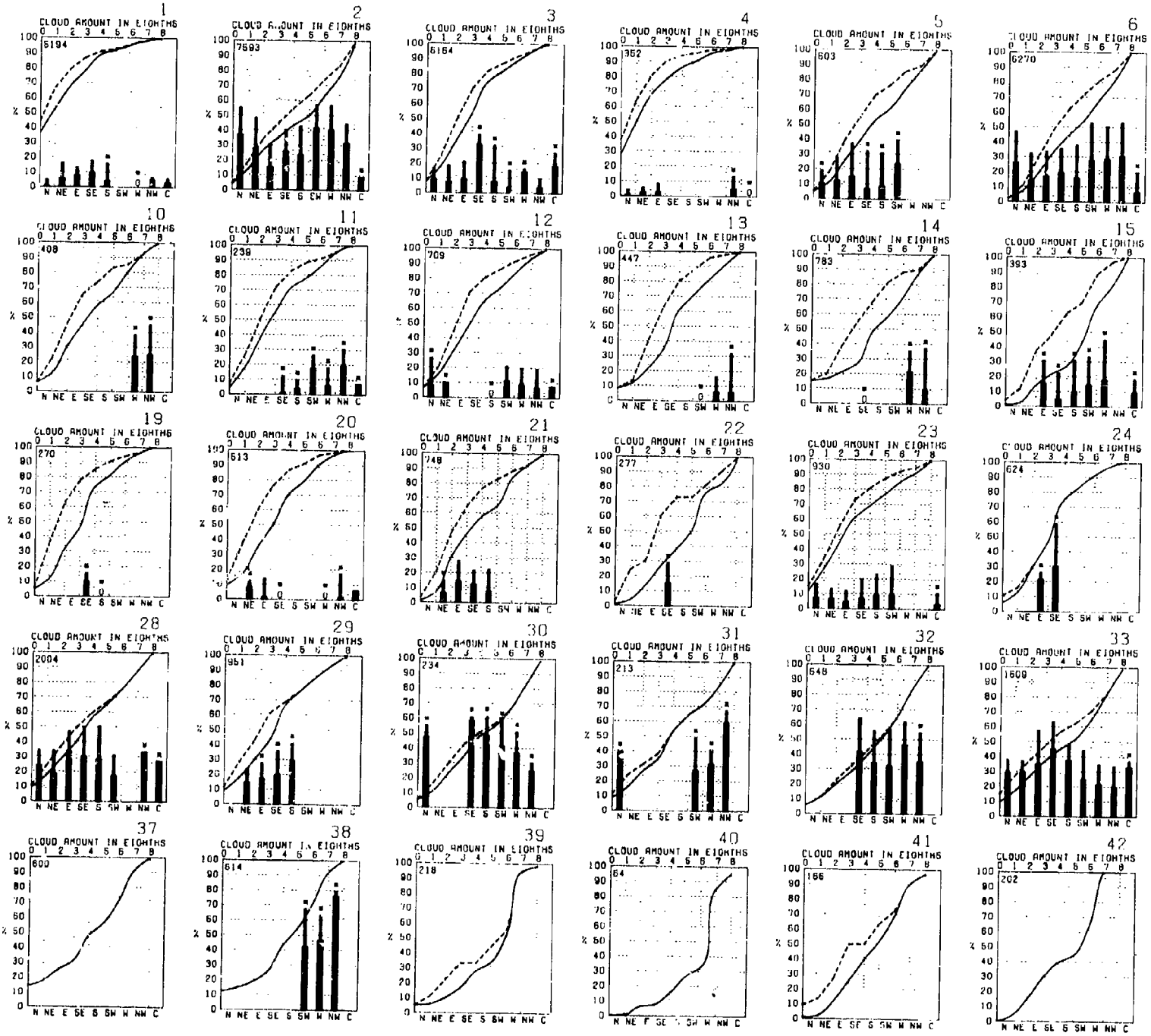


CLOUD COVER



Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve.
CLOUD AMOUNT IN EIGHTHS
Number of observations.
Obscurations
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8 Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8.)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE - Percent frequency of total cloud amount ≤2/8
RED LINE - Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C

CLOUD COVER



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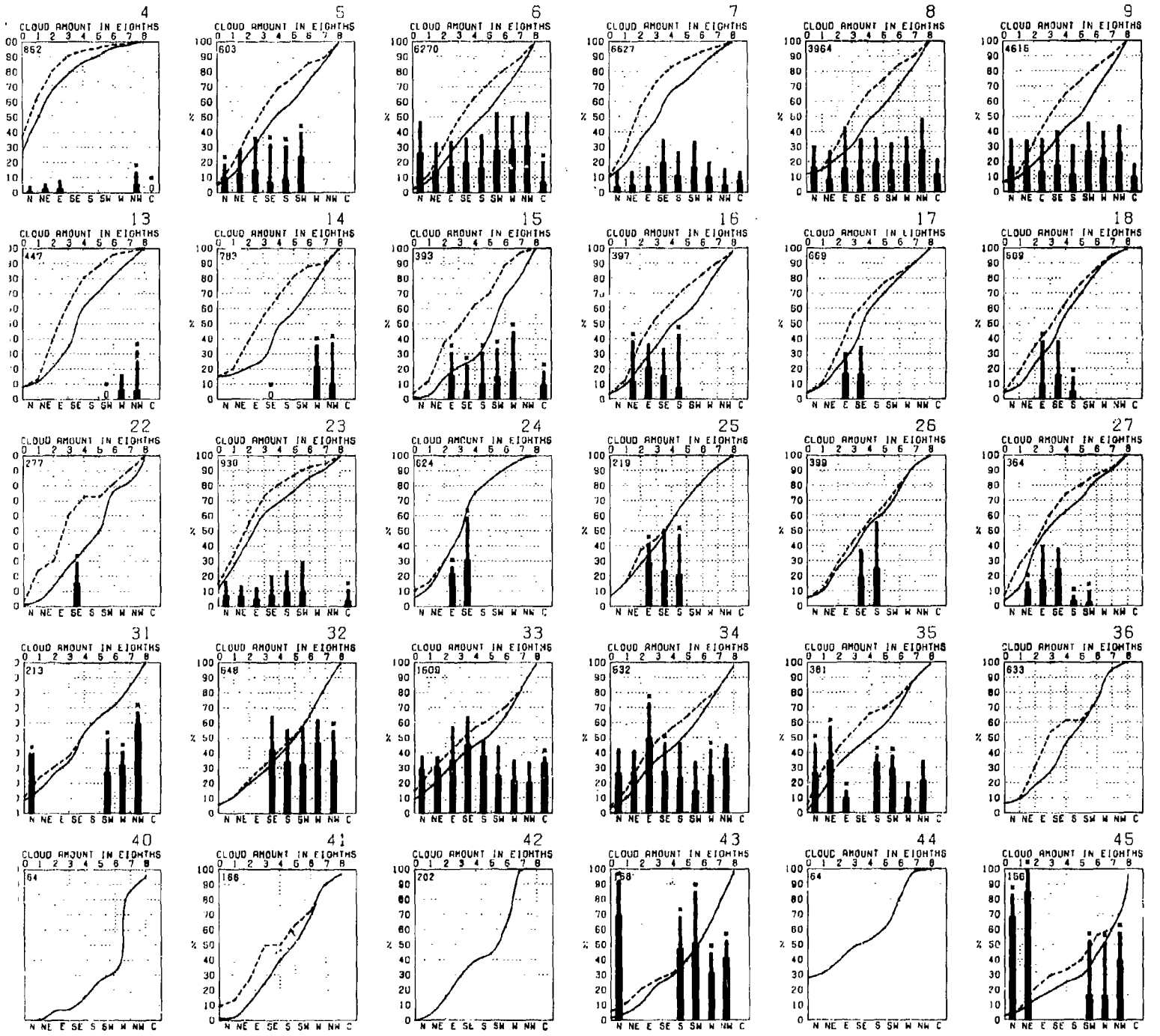

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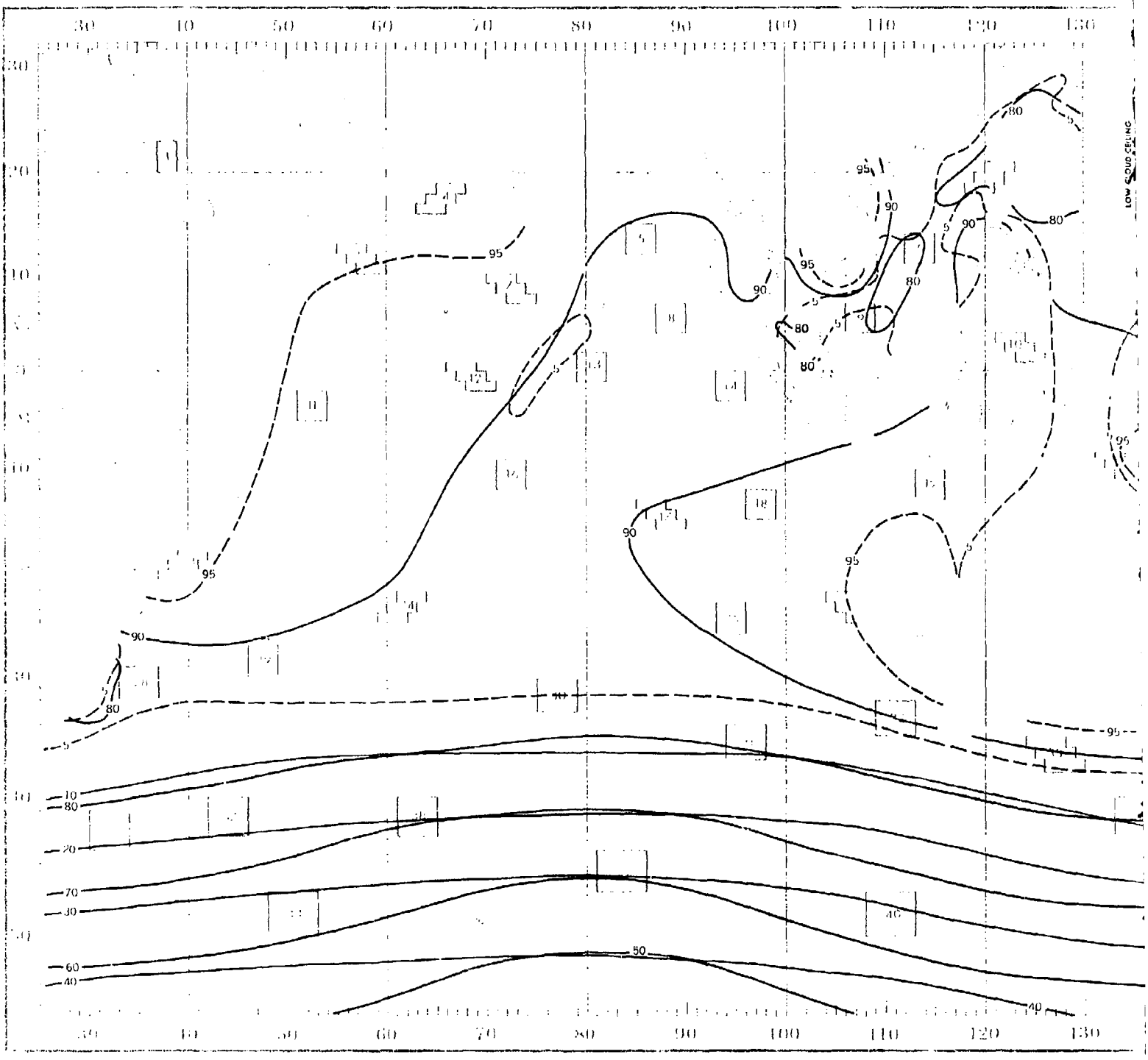
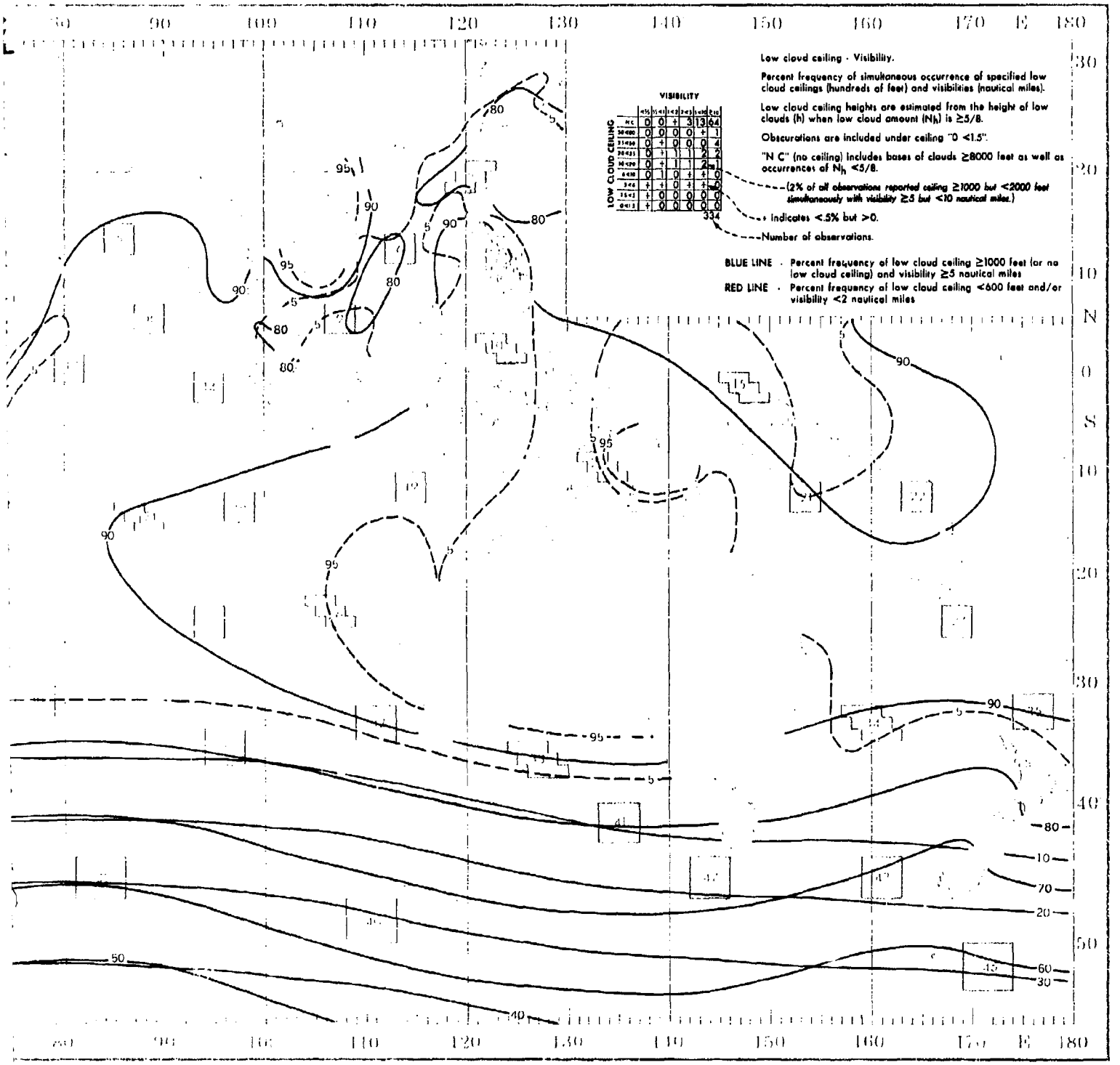


CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	3	89
50-<80	0	0	0	0	0	1
30-<50	0	0	0	0	0	*
20-<30	0	0	0	0	1	2
10-<20	0	0	0	0	*	2
5-<10	0	0	0	0	*	1
3-<5	0	0	0	*	0	*
1-<3	0	0	0	*	0	*
0-<1	0	0	0	0	0	0

722

2

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	*	*	2	12	61
50-<80	0	0	*	*	*	*
30-<50	0	0	0	*	*	*
20-<30	0	0	*	1	3	4
10-<20	0	*	*	2	9	7
5-<10	*	*	1	3	5	3
3-<5	*	*	*	1	2	1
1-<3	0	*	*	*	*	*
0-<1	*	*	*	*	*	*

3162

3

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	*	2	78
50-<80	0	0	0	0	0	1
30-<50	*	0	0	*	*	2
20-<30	0	0	0	*	1	4
10-<20	0	0	0	*	1	5
5-<10	0	0	*	*	1	3
3-<5	0	0	0	*	*	*
1-<3	0	0	0	*	0	0
0-<1	0	0	0	0	0	0

1393

4

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	91
50-<80	0	0	0	0	*	*
30-<50	0	0	0	0	0	*
20-<30	0	0	0	0	0	1
10-<20	0	0	*	0	1	1
5-<10	0	0	0	0	*	1
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	*

886

5

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	*	5	83
50-<80	0	0	0	0	*	1
30-<50	0	0	0	0	1	3
20-<30	0	0	0	0	0	1
10-<20	0	0	0	1	4	8
5-<10	0	0	0	0	4	4
3-<5	0	0	0	0	*	1
1-<3	0	0	0	*	0	0
0-<1	0	0	0	0	0	0

294

6

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	*	2	13	
50-<80	0	0	0	*	*	
30-<50	0	0	0	*	*	
20-<30	0	0	0	1	7	
10-<20	0	*	*	1	5	
5-<10	*	*	*	2	4	
3-<5	*	*	*	1	1	
1-<3	0	0	*	*	*	
0-<1	*	*	*	*	*	

62

10

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	70
50-<80	0	0	0	0	0	1
30-<50	0	0	0	0	0	1
20-<30	0	0	0	0	0	0
10-<20	0	0	0	3	1	0
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

78

11

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	79
50-<80	0	0	0	0	0	1
30-<50	0	0	0	0	0	1
20-<30	0	0	0	0	2	2
10-<20	0	0	0	1	2	2
5-<10	0	0	0	0	1	7
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

131

12

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	3	76
50-<80	0	0	0	0	*	*
30-<50	0	0	0	0	*	2
20-<30	0	0	0	1	*	5
10-<20	0	0	0	1	2	6
5-<10	0	0	0	0	1	1
3-<5	0	0	0	0	0	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

293

13

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	78
50-<80	0	0	0	0	1	1
30-<50	0	0	0	0	1	0
20-<30	0	0	0	0	0	4
10-<20	0	0	0	0	2	6
5-<10	0	0	0	0	1	0
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

97

14

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	88
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	0	4
20-<30	0	0	0	0	2	4
10-<20	0	0	0	0	4	4
5-<10	0	2	0	0	2	7
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	2	0

67

1

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	
50-<80	0	0	0	0	0	
30-<50	0	0	0	0	0	
20-<30	0	0	0	0	0	
10-<20	0	0	0	1	3	
5-<10	0	0	0	0	7	
3-<5	0	0	0	0	1	
1-<3	0	0	0	0	0	
0-<1	0	0	0	0	0	

19

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	10	78
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	0	0
20-<30	0	0	0	0	0	4
10-<20	0	0	0	0	0	2
5-<10	0	0	0	0	2	8
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

82

20

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	5	81
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	0	1
20-<30	0	0	0	0	1	2
10-<20	0	0	0	0	1	6
5-<10	0	0	0	0	1	3
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

172

21

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	1	8	88
50-<80	0	0	0	0	0	0
30-<50	0	0	0	*	*	1
20-<30	0	0	0	*	1	3
10-<20	0	0	0	*	2	6
5-<10	0	*	*	1	1	5
3-<5	0	0	0	0	0	*
1-<3	0	0	*	0	0	0
0-<1	0	*	0	0	0	*

258

22

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	3	23	46
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	0	6
20-<30	0	0	0	0	3	8
10-<20	0	0	0	0	0	3
5-<10	0	0	0	0	3	0
3-<5	0	0	0	0	0	3
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	3	0

31

23

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	*	91
50-<80	0	0	0	0	0	1
30-<50	0	0	0	0	0	1
20-<30	0	0	0	0	*	4
10-<20	0	0	0	*	*	7
5-<10	0	0	0	0	*	3
3-<5	0	0	0	0	0	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	*	*	0

770

2

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	
50-<80	0	0	0	0	0	
30-<50	0	0	0	0	0	
20-<30	0	0	0	0	0	
10-<20	0	0	0	0	11	
5-<10	0	0	0	0	0	
3-<5	0	0	0	0	0	
1-<3	0	0	0	0	0	
0-<1	0	0	0	0	0	

28

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	4	88
50-<80	0	0	0	0	1	2
30-<50	0	0	0	0	*	2
20-<30	0	0	0	0	1	6
10-<20	0	0	0	*	3	11
5-<10	0	0	*	1	3	7
3-<5	0	0	*	*	1	*
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	*

666

29

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	88
50-<80	0	0	0	1	0	2
30-<50	0	0	0	0	0	3
20-<30	0	0	0	0	1	5
10-<20	0	0	0	0	0	8
5-<10	0	0	0	1	2	8
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	1
0-<1	0	0	0	0	0	0

101

30

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	80
50-<80	0	0	0	0	0	3
30-<50	0	0	0	0	0	3
20-<30	0	0	0	0	1	9
10-<20	0	0	0	2	4	17
5-<10	0	0	0	1	3	3
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	1	0

107

31

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	46
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	2	6
20-<30	0	0	0	0	6	11
10-<20	0	0	0	2	2	11
5-<10	0	0	0	4	6	2
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

63

32

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	1	38
50-<80	0	0	0	0	0	4
30-<50	0	0	0	1	1	10
20-<30	0	0	0	0	1	13
10-<20	0	0	0	1	2	18
5-<10	0	0	0	*	1	8
3-<5	0	0	0	*	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

346

3

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	*	5	6
50-<80	0	0	0	*	*	
30-<50	0	0	*	*	1	
20-<30	0	0	0	*	1	
10-<20	0	0	*	*	2	1
5-<10	0	0	*	*	1	
3-<5	0	0	0	*	1	
1-<3	0	0	0	0	1	
0-<1	0	0	0	0	0	

90

37

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	12
50-<80	0	0	0	0	0	12
30-<50	0	0	0	0	0	6
20-<30	0	0	0	6	18	12
10-<20	0	0	0	0	0	18
5-<10	0	8	8	8	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

17

38

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	23
50-<80	0	0	0	0	0	2
30-<50	0	0	0	0	8	9
20-<30	0	0	0	0	6	13
10-<20	0	2	0	2	8	9
5-<10	0	0	0	0	9	6
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	2	0
0-<1	0	0	0	0	0	0

47

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

LOW CLOUD CEILING \ VISIBILITY	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	9	41
50-<80	0	0	0	0	0	0
30-<50	0	0	0	0	0	9
20-<30	0	0	0	0	0	5
10-<20	0	0	0	0	5	9
5-<10	0	0	0	5	0	14
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	5	0
0-<1	0	0	0	0	0	0

22

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adjus

NOVEMBER

4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	3	91
50+80	0	0	0	0	+	+
35+50	0	0	0	0	0	+
20+35	0	0	0	0	0	1
10+20	0	0	+	0	1	1
5+10	0	0	0	0	+	1
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	+

558

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	+	5	83
50+80	0	0	0	0	+	1
35+50	0	0	0	0	1	3
20+35	0	0	0	0	1	5
10+20	0	0	0	1	4	8
5+10	0	0	0	0	4	4
3+5	0	0	0	0	+	1
1.5+3	0	0	0	+	0	0
0+1.5	0	0	0	0	0	0

294

6

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	2	13	48
50+80	0	0	0	+	+	+
35+50	0	0	0	+	+	1
20+35	0	0	0	1	2	4
10+20	0	+	+	1	5	8
5+10	+	+	+	2	4	3
3+5	+	+	+	1	1	+
1.5+3	0	0	+	+	+	+
0+1.5	+	+	+	+	+	+

1221

7

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	1	2	81
50+80	0	0	0	0	+	1
35+50	0	0	0	+	+	2
20+35	0	0	0	+	+	3
10+20	0	0	0	+	1	5
5+10	0	0	0	+	1	2
3+5	0	0	0	+	+	1
1.5+3	0	0	0	0	0	+
0+1.5	0	0	0	+	+	+

1427

8

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	0	+	5	80
50+80	0	0	0	0	+	+
35+50	0	0	0	0	+	2
20+35	0	0	0	+	1	5
10+20	0	+	0	1	4	8
5+10	0	0	+	1	3	5
3+5	+	0	0	1	+	1
1.5+3	0	0	0	0	+	+
0+1.5	0	0	0	+	+	0

1373

9

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	1	8	56
50+80	0	0	0	+	+	1
35+50	0	0	0	+	+	1
20+35	0	0	0	+	2	5
10+20	0	+	+	1	4	8
5+10	+	+	+	1	3	3
3+5	0	+	+	1	1	1
1.5+3	+	0	0	+	+	+
0+1.5	+	+	+	+	+	+

2407

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	78
50+80	0	0	0	0	1	1
35+50	0	0	0	0	1	0
20+35	0	0	0	0	0	4
10+20	0	0	0	0	2	6
5+10	0	0	0	0	1	0
3+5	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

87

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	68
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	4
20+35	0	0	0	0	2	4
10+20	0	0	0	0	4	4
5+10	0	2	0	0	2	7
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	2	0

67

15

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	60
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	7
10+20	0	0	0	1	3	9
5+10	0	0	0	0	7	4
3+5	0	0	0	0	1	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

69

16

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	3	62
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	2
20+35	0	0	0	+	1	3
10+20	0	0	0	2	4	12
5+10	0	+	0	0	2	8
3+5	0	+	0	0	0	1
1.5+3	0	0	0	1	0	0
0+1.5	0	0	0	0	0	0

267

17

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	84
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	3
20+35	0	0	0	0	0	4
10+20	0	0	0	0	1	11
5+10	0	0	0	2	2	8
3+5	0	0	0	1	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

202

18

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	81
50+80	0	0	0	0	0	4
35+50	0	0	0	0	1	4
20+35	0	0	0	0	0	13
10+20	0	0	1	0	1	12
5+10	0	0	0	0	0	1
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

134

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	3	23	45
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	3
10+20	0	0	0	0	0	3
5+10	0	0	0	0	3	0
3+5	0	0	0	0	0	3
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	3	0

31

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	+	81
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	1
20+35	0	0	0	0	+	4
10+20	0	0	0	0	+	7
5+10	0	0	0	0	+	3
3+5	0	0	0	0	0	+
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	+	+	0

770

24

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	67
50+80	0	0	0	0	0	3
35+50	0	0	0	0	0	0
20+35	0	0	0	0	0	8
10+20	0	0	0	0	11	14
5+10	0	0	0	0	0	3
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

37

25

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	54
50+80	0	0	0	0	0	7
35+50	0	0	0	0	0	7
20+35	0	0	0	0	0	14
10+20	0	0	0	0	1	9
5+10	0	0	0	0	0	7
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

70

26

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	88
50+80	0	0	0	0	0	5
35+50	0	0	0	0	0	14
20+35	0	0	0	0	0	13
10+20	0	0	0	0	0	7
5+10	0	0	0	0	0	5
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

153

27

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	1	0	0	0	2	72
50+80	0	0	0	0	0	1
35+50	0	0	0	0	1	2
20+35	0	0	0	0	1	6
10+20	0	0	0	1	0	8
5+10	0	0	0	0	1	6
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

160

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	46
80	0	0	0	0	0	0
80	0	0	0	0	2	6
35	0	0	0	0	8	11
20	0	0	0	2	2	11
10	0	0	0	4	6	2
5	0	0	0	0	0	0
3	0	0	0	0	0	0
5	0	0	0	0	0	0

63

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	1	33
50+80	0	0	0	0	0	4
35+50	0	0	0	1	1	10
20+35	0	0	0	0	1	13
10+20	0	0	0	1	2	18
5+10	0	0	0	+	1	6
3+5	0	0	0	+	0	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	0

345

33

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	5	55
50+80	0	0	0	+	+	3
35+50	0	0	+	+	1	8
20+35	0	0	0	+	1	9
10+20	0	0	+	+	2	10
5+10	0	0	0	+	1	5
3+5	0	0	0	0	1	+
1.5+3	0	0	0	0	+	0
0+1.5	0	0	0	0	0	0

900

34

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	3	53
50+80	0	0	0	0	0	1
35+50	0	0	0	0	1	2
20+35	0	0	0	+	1	4
10+20	0	0	0	1	4	11
5+10	0	0	0	1	6	8
3+5	+	0	0	0	1	1
1.5+3	0	0	0	0	1	+
0+1.5	0	0	0	+	1	0

321

35

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	86
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	2
20+35	0	0	0	0	1	4
10+20	0	0	0	0	2	13
5+10	0	0	0	0	8	3
3+5	0	0	0	0	1	1
1.5+3	0	0	0	0	0	0
0+1.5	0	0	0	0	0	1

183

36

INSUFFICIENT DATA

40

SUFFICIENT DATA

41

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	9	41
50+80	0	0	0	0	0	0
35+50	0	0	0	0	0	8
20+35	0	0	0	0	0	5
10+20	0	0	0	0	5	9
5+10	0	0	0	5	0	14
3+5	0	0	0	0	0	0
1.5+3	0	0	0	0	5	0
0+1.5	0	0	0	0	0	0

22

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	28
50+80	0	0	0	0	0	1
35+50	0	0	0	0	0	3
20+35	0	0	0	0	3	8
10+20	0	0	0	0	14	9
5+10	0	0	0	0	10	10
3+5	0	0	0	1	1	0
1.5+3	0	0	0	1	1	0
0+1.5	1	0	0	1	1	0

78

44

INSUFFICIENT DATA

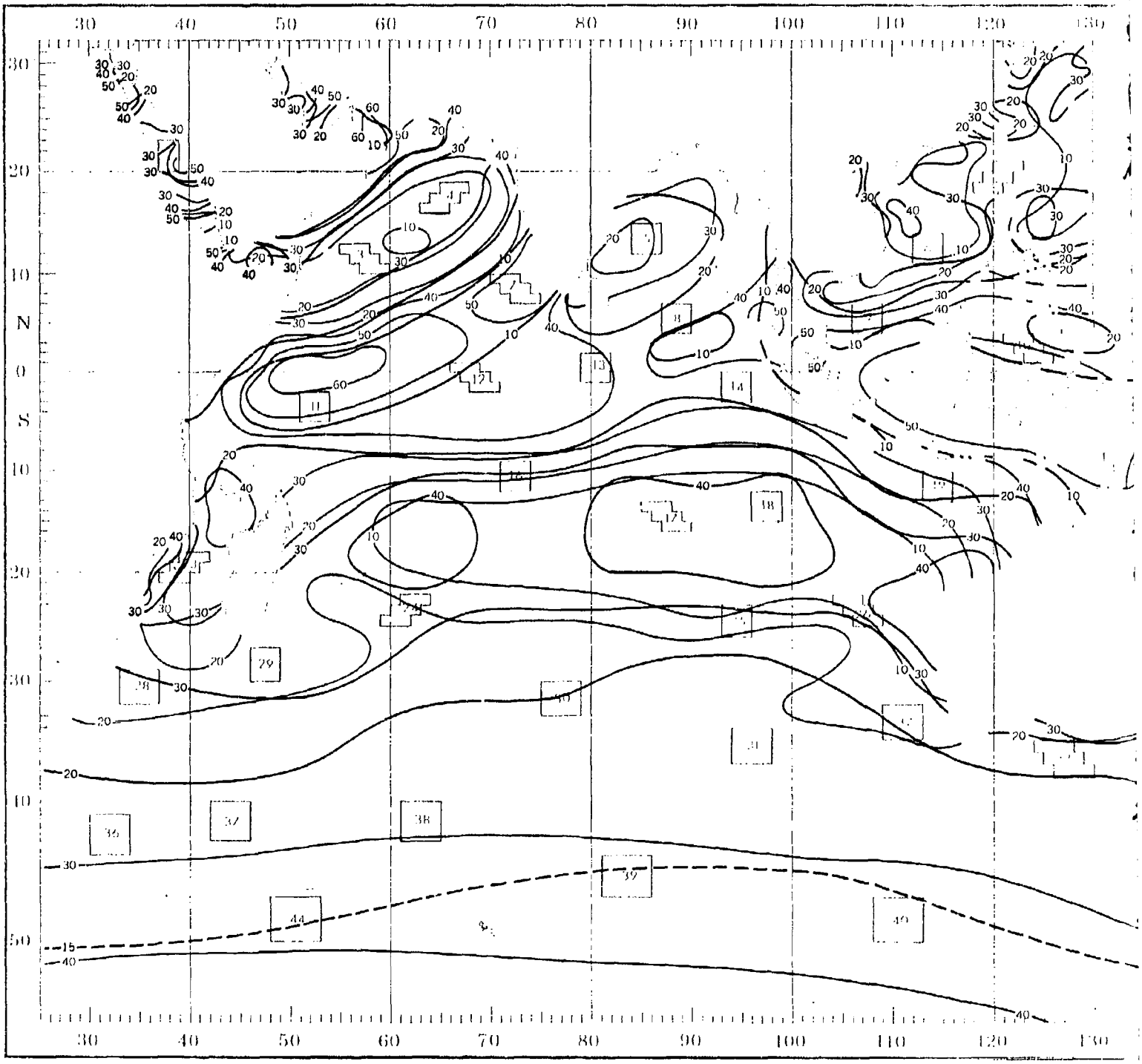
45

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	1	1	16	16
50+80	0	0	0	0	0	2
35+50	0	0	0	0	0	1
20+35	0	0	1	1	23	0
10+20	1	0	0	1	15	7
5+10	0	0	0	1	2	2
3+5	0	0	0	0	0	0
1.5+3	0	0	0	2	1	0
0+1.5	0	4	3	0	0	0

117

e compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER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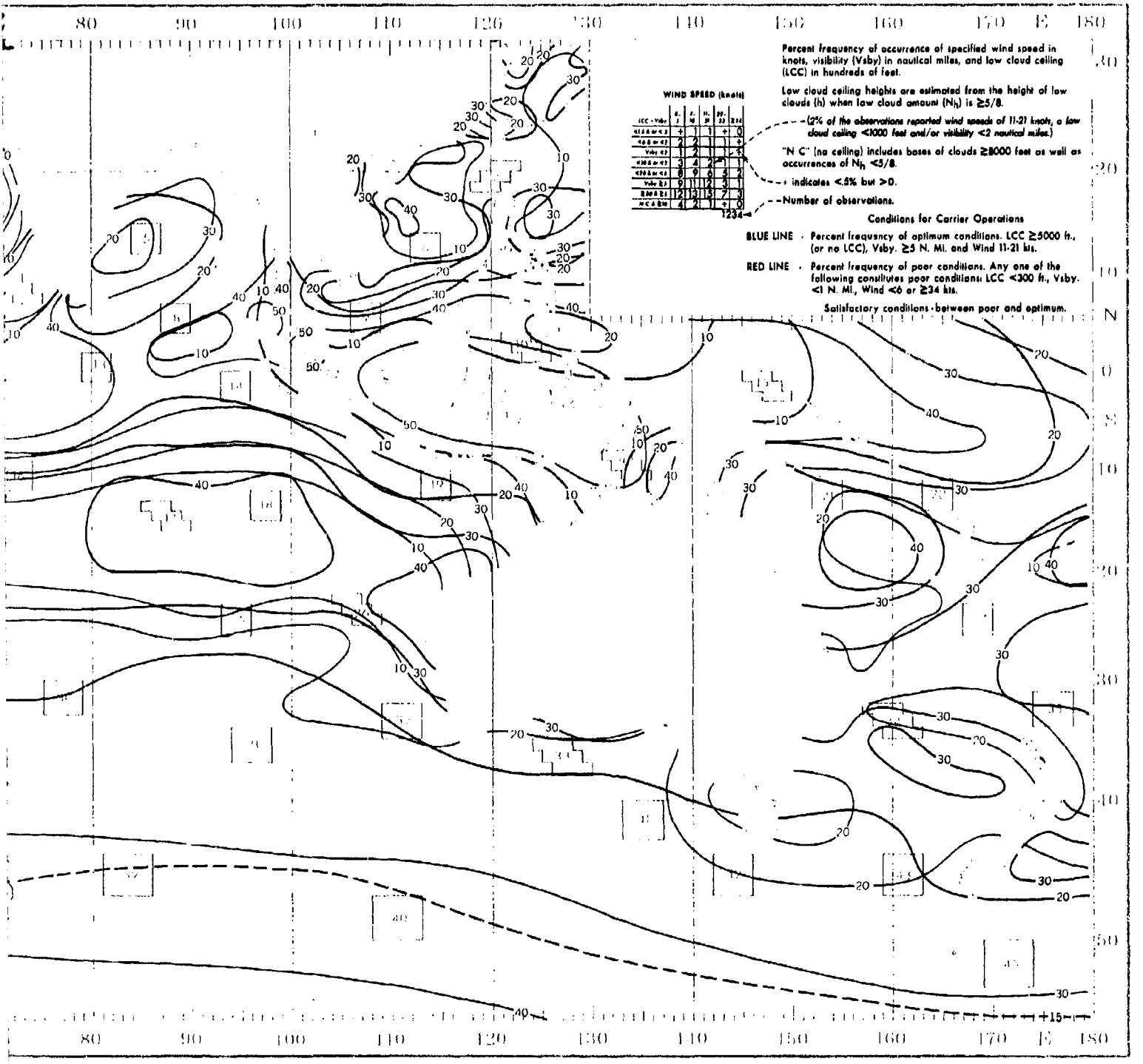
WIND-VISIBILITY-CLOUDINESS



LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	1	1	+	0
<20 & OR <5	1	2	2	1	0
VSBY ≥5	22	49	27	2	0
≥80 & ≥5	21	45	25	1	0
NC & ≥10	20	44	24	1	0

716

2

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	1	+
<8 & OR <2	+	+	1	3	2
VSBY <2	0	+	+	1	1
<10 & OR <2	+	1	5	9	4
<20 & OR <5	+	2	12	19	6
VSBY ≥5	1	9	36	35	8
≥80 & ≥5	1	7	26	19	2
NC & ≥10	1	6	20	13	1

8131

3

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<8 & OR <2	0	+	1	+	0
VSBY <2	0	0	+	0	0
<10 & OR <2	+	2	3	+	0
<20 & OR <5	+	5	6	+	+
VSBY ≥5	4	52	41	1	+
≥80 & ≥5	3	45	33	1	0
NC & ≥10	3	44	31	1	0

1378

4

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<8 & OR <2	0	0	+	+	0
VSBY <2	0	0	0	+	0
<10 & OR <2	0	1	1	+	0
<20 & OR <5	+	2	2	1	0
VSBY ≥5	7	56	36	1	0
≥80 & ≥5	6	54	33	1	0
NC & ≥10	8	52	32	1	0

553

5

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	+	1	+	+	0
VSBY <2	0	+	0	0	0
<10 & OR <2	1	2	5	2	0
<20 & OR <5	2	7	9	4	0
VSBY ≥5	5	49	38	C	+
≥80 & ≥5	3	38	26	2	0
NC & ≥10	3	33	26	2	0

293

6

WIND SPEED (KNO

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+		
<8 & OR <2	+	1	2		
VSBY <2	+	+	1		
<10 & OR <2	+	2	7		
<20 & OR <5	+	6	16		
VSBY ≥5	2	23	51		
≥80 & ≥5	1	19	35		
NC & ≥10	1	15	28		

10

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	1	0	0
<20 & OR <5	0	7	7	1	0
VSBY ≥5	19	53	24	1	0
≥80 & ≥5	17	45	19	0	0
NC & ≥10	16	43	12	0	0

75

11

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	5	2	0	0
<20 & OR <5	2	7	5	0	0
VSBY ≥5	33	54	12	0	0
≥80 & ≥5	29	46	8	0	0
NC & ≥10	27	45	6	0	0

129

12

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	+	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	2	1	0	0
<20 & OR <5	1	9	2	0	0
VSBY ≥5	17	64	17	0	0
≥80 & ≥5	16	60	15	0	0
NC & ≥10	14	48	16	0	0

288

13

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	1	0	0
<20 & OR <5	0	6	6	0	0
VSBY ≥5	28	46	27	1	0
≥80 & ≥5	23	38	20	1	0
NC & ≥10	23	36	17	1	0

95

14

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<8 & OR <2	2	2	0	0	0
VSBY <2	2	0	0	0	0
<10 & OR <2	2	9	2	0	0
<20 & OR <5	4	11	5	0	0
VSBY ≥5	15	49	36	0	0
≥80 & ≥5	13	31	27	0	0
NC & ≥10	13	31	24	0	0

56

1

WIND SPEED (KNOT

CCC - VSBY	0-3	4-10	11-21	22-33
<1.5 & OR <.5	0	0	0	0
<8 & OR <2	1	0	0	0
VSBY <2	0	0	0	0
<10 & OR <2	3	6	4	0
<20 & OR <5	6	18	4	0
VSBY ≥5	32	54	10	0
≥80 & ≥5	28	34	8	0
NC & ≥10	25	29	8	0

19

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	6	4	0	0
<20 & OR <5	0	8	8	0	0
VSBY ≥5	8	53	41	0	0
≥80 & ≥5	8	47	31	0	0
NC & ≥10	4	43	27	0	0

61

20

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	1	0	0
<20 & OR <5	4	7	1	0	0
VSBY ≥5	35	53	11	0	0
≥80 & ≥5	32	44	10	0	0
NC & ≥10	30	42	10	0	0

187

21

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	+
<8 & OR <2	0	1	1	+	1
VSBY <2	0	+	+	+	1
<10 & OR <2	0	2	5	1	1
<20 & OR <5	+	5	13	1	1
VSBY ≥5	7	38	49	2	0
≥80 & ≥5	7	33	35	1	0
NC & ≥10	6	31	30	+	0

257

22

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	3	0	0
<8 & OR <2	0	0	8	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	10	0	0
<20 & OR <5	0	3	13	0	0
VSBY ≥5	3	45	48	0	0
≥80 & ≥5	3	35	29	0	0
NC & ≥10	3	19	23	0	0

31

23

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	+	0
<8 & OR <2	0	+	+	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	1	2	1	+
<20 & OR <5	1	5	5	1	+
VSBY ≥5	13	50	33	4	+
≥80 & ≥5	11	43	26	2	+
NC & ≥10	11	43	25	2	+

786

2

WIND SPEED (KNO

CCC - VSBY	0-3	4-10	11-21	22-33
<1.5 & OR <.5	0	0	0	
<8 & OR <2	0	0	0	
VSBY <2	0	0	0	
<10 & OR <2	0	0	3	
<20 & OR <5	0	5	19	
VSBY ≥5	0	43	54	
≥80 & ≥5	0	32	32	
NC & ≥10	0	30	27	

28

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<8 & OR <2	+	+	1	+	+
VSBY <2	0	0	+	+	0
<10 & OR <2	1	3	8	2	+
<20 & OR <5	1	7	13	5	+
VSBY ≥5	7	29	45	16	1
≥80 & ≥5	5	20	28	10	1
NC & ≥10	5	17	26	8	1

858

29

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	1	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	4	1	0
<20 & OR <5	1	8	10	2	0
VSBY ≥5	5	33	48	13	0
≥80 & ≥5	4	25	35	8	0
NC & ≥10	3	25	34	7	0

101

30

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<8 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	7	0	0
<20 & OR <5	5	13	11	3	0
VSBY ≥5	11	48	30	8	0
≥80 & ≥5	4	30	15	5	0
NC & ≥10	4	28	14	4	0

105

31

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	4	2
<20 & OR <5	2	8	8	8	2
VSBY ≥5	8	32	40	13	4
≥80 & ≥5	0	19	21	8	0
NC & ≥10	0	19	19	8	0

53

32

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	+	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	1	1
<20 & OR <5	0	10	13	4	2
VSBY ≥5	1	31	50	12	3
≥80 & ≥5	1	16	29	8	0
NC & ≥10	1	14	20	4	0

342

3

WIND SPEED (KNOTS

CCC - VSBY	0-3	4-10	11-21	22-33
<1.5 & OR <.5	0	0	0	
<8 & OR <2	+	+	1	
VSBY <2	0	0	0	
<10 & OR <2	+	3	4	
<20 & OR <5	1	8	9	
VSBY ≥5	7	38	40	
≥80 & ≥5	5	24	25	
NC & ≥10	5	21	22	

37

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	5	8	0	0
VSBY <2	0	5	6	0	0
<10 & OR <2	0	6	12	0	0
<20 & OR <5	0	8	36	0	0
VSBY ≥5	0	12	47	18	0
≥80 & ≥5	0	12	12	0	0
NC & ≥10	0	8	6	0	0

17

38

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	4	0
VSBY <2	0	0	0	2	0
<10 & OR <2	0	0	9	9	2
<20 & OR <5	0	0	16	17	4
VSBY ≥5	2	11	43	32	9
≥80 & ≥5	2	9	8	8	4
NC & ≥10	2	9	4	6	2

47

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

CCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	6	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	9	8	5	0
<20 & OR <5	0	14	14	9	0
VSBY ≥5	0	45	32	14	5
≥80 & ≥5	0	32	9	5	5
NC & ≥10	0	23	9	5	5

22

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without

The isopleth analyses (opposite page) are based on all available data subjectively adjust

ITY-WIND

NOVEMBER

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<8 & OR <2	0	0	*	*	0
VSBY <2	0	0	0	*	0
<10 & OR <2	0	1	1	*	0
<20 & OR <5	*	2	2	1	0
VSBY ≥5	7	58	36	1	0
≥50 & ≥5	6	54	33	1	0
NC & ≥10	6	52	32	1	0

653

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	*	1	*	*	0
VSBY <2	0	*	0	0	0
<10 & OR <2	1	2	5	2	0
<20 & OR <5	2	7	9	4	0
VSBY ≥5	5	49	38	6	*
≥50 & ≥5	3	38	26	2	0
NC & ≥10	3	33	25	2	0

293

6

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	*	*
<8 & OR <2	*	1	2	2	1
VSBY <2	*	*	1	1	*
<10 & OR <2	*	2	7	5	1
<20 & OR <5	*	6	18	9	1
VSBY ≥5	2	23	51	14	1
≥50 & ≥5	1	18	35	7	*
NC & ≥10	1	15	28	4	*

5194

7

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	0	0
<8 & OR <2	*	1	*	0	0
VSBY <2	0	*	0	0	0
<10 & OR <2	*	3	1	0	0
<20 & OR <5	2	8	3	0	0
VSBY ≥5	26	61	12	*	0
≥50 & ≥5	24	51	9	*	*
NC & ≥10	23	49	8	*	0

1398

8

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	0	0
<8 & OR <2	*	2	1	*	0
VSBY <2	0	*	*	*	0
<10 & OR <2	1	6	4	1	0
<20 & OR <5	2	13	11	1	0
VSBY ≥5	13	54	27	1	0
≥50 & ≥5	10	39	16	1	0
NC & ≥10	10	36	14	*	0

1362

9

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	*	*	*	0
<8 & OR <2	*	2	2	*	0
VSBY <2	*	1	1	*	0
<10 & OR <2	1	6	5	1	0
<20 & OR <5	2	13	10	1	0
VSBY ≥5	16	47	29	2	0
≥50 & ≥5	13	33	18	1	0
NC & ≥10	11	28	15	*	0

2970

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	2	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	1	0	0
<20 & OR <5	0	6	6	0	0
VSBY ≥5	26	45	27	1	0
≥50 & ≥5	23	38	20	1	0
NC & ≥10	23	35	17	1	0

95

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<8 & OR <2	2	2	0	0	0
VSBY <2	2	0	0	0	0
<10 & OR <2	2	9	2	0	0
<20 & OR <5	4	11	6	0	0
VSBY ≥5	15	49	35	0	0
≥50 & ≥5	13	31	27	0	0
NC & ≥10	13	31	24	0	0

55

15

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	1	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	8	4	0	0
<20 & OR <5	6	18	4	0	0
VSBY ≥5	32	54	10	0	0
≥50 & ≥5	25	34	8	0	0
NC & ≥10	25	29	8	0	0

88

16

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	1	2	*	0
VSBY <2	0	*	*	0	0
<10 & OR <2	*	5	6	1	0
<20 & OR <5	*	11	14	3	0
VSBY ≥5	3	45	44	6	0
≥50 & ≥5	2	33	28	3	0
NC & ≥10	2	30	27	2	0

286

17

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	8	2	1
<20 & OR <5	0	3	15	8	1
VSBY ≥5	0	17	87	13	1
≥50 & ≥5	0	13	47	7	0
NC & ≥10	0	13	44	7	0

202

18

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	1	0
<10 & OR <2	0	0	1	1	0
<20 & OR <5	0	3	10	1	1
VSBY ≥5	1	21	71	8	1
≥50 & ≥5	1	18	45	4	0
NC & ≥10	1	18	43	2	0

134

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	3	0	0
<8 & OR <2	0	0	8	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	10	0	0
<20 & OR <5	0	3	13	0	0
VSBY ≥5	3	45	48	0	0
≥50 & ≥5	3	35	29	0	0
NC & ≥10	3	19	23	0	0

31

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	*	0
<8 & OR <2	0	*	*	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	1	2	1	*
<20 & OR <5	1	6	5	1	*
VSBY ≥5	13	50	33	4	*
≥50 & ≥5	11	43	26	2	*
NC & ≥10	11	43	26	2	*

166

24

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	3	0	0
<20 & OR <5	0	6	19	3	0
VSBY ≥5	0	43	54	3	0
≥50 & ≥5	0	32	92	0	0
NC & ≥10	0	30	27	0	0

37

25

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	8	0	0
<20 & OR <5	0	1	18	0	0
VSBY ≥5	1	40	67	1	0
≥50 & ≥5	1	29	30	1	0
NC & ≥10	1	24	27	1	0

70

26

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	4	0	0
<20 & OR <5	0	2	7	2	0
VSBY ≥5	1	27	88	8	0
≥50 & ≥5	0	17	42	1	0
NC & ≥10	0	16	38	1	0

149

27

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	6	0	0
<20 & OR <5	0	2	13	0	0
VSBY ≥5	4	38	55	2	0
≥50 & ≥5	4	34	37	1	0
NC & ≥10	4	33	35	1	0

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	4	4	2
<20 & OR <5	2	8	8	8	2
VSBY ≥5	6	32	40	13	4
≥50 & ≥5	0	18	21	8	0
NC & ≥10	0	19	19	8	0

83

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	1	*	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	3	1	1
<20 & OR <5	0	10	13	4	2
VSBY ≥5	1	31	50	12	3
≥50 & ≥5	1	18	23	6	0
NC & ≥10	1	14	20	4	0

342

33

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	*	*	1	0	*
VSBY <2	0	0	0	0	*
<10 & OR <2	*	3	4	1	*
<20 & OR <5	1	8	9	2	*
VSBY ≥5	7	38	40	12	1
≥50 & ≥5	5	24	25	8	1
NC & ≥10	5	21	22	7	*

883

34

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	0	1	0
<8 & OR <2	0	*	2	2	0
VSBY <2	0	0	0	*	0
<10 & OR <2	0	3	10	5	1
<20 & OR <5	*	7	19	8	2
VSBY ≥5	4	30	47	14	3
≥50 & ≥5	3	18	26	8	1
NC & ≥10	3	18	24	8	1

316

35

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	1	0
<8 & OR <2	0	1	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	3	6	3	*
<20 & OR <5	1	8	12	4	1
VSBY ≥5	5	42	43	8	1
≥50 & ≥5	4	30	28	4	1
NC & ≥10	4	30	27	4	0

180

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<8 & OR <2	0	0	0	5	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	9	9	5	0
<20 & OR <5	0	14	14	9	0
VSBY ≥5	0	46	32	14	5
≥50 & ≥5	0	32	9	5	5
NC & ≥10	0	23	9	5	5

22

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	1	0
<8 & OR <2	0	1	5	1	1
VSBY <2	0	1	0	0	0
<10 & OR <2	0	4	21	4	1
<20 & OR <5	0	5	38	8	5
VSBY ≥5	1	19	50	19	5
≥50 & ≥5	1	9	13	10	1
NC & ≥10	0	9	10	9	0

78

44

INSUFFICIENT DATA

45

WIND SPEED (KNOTS)

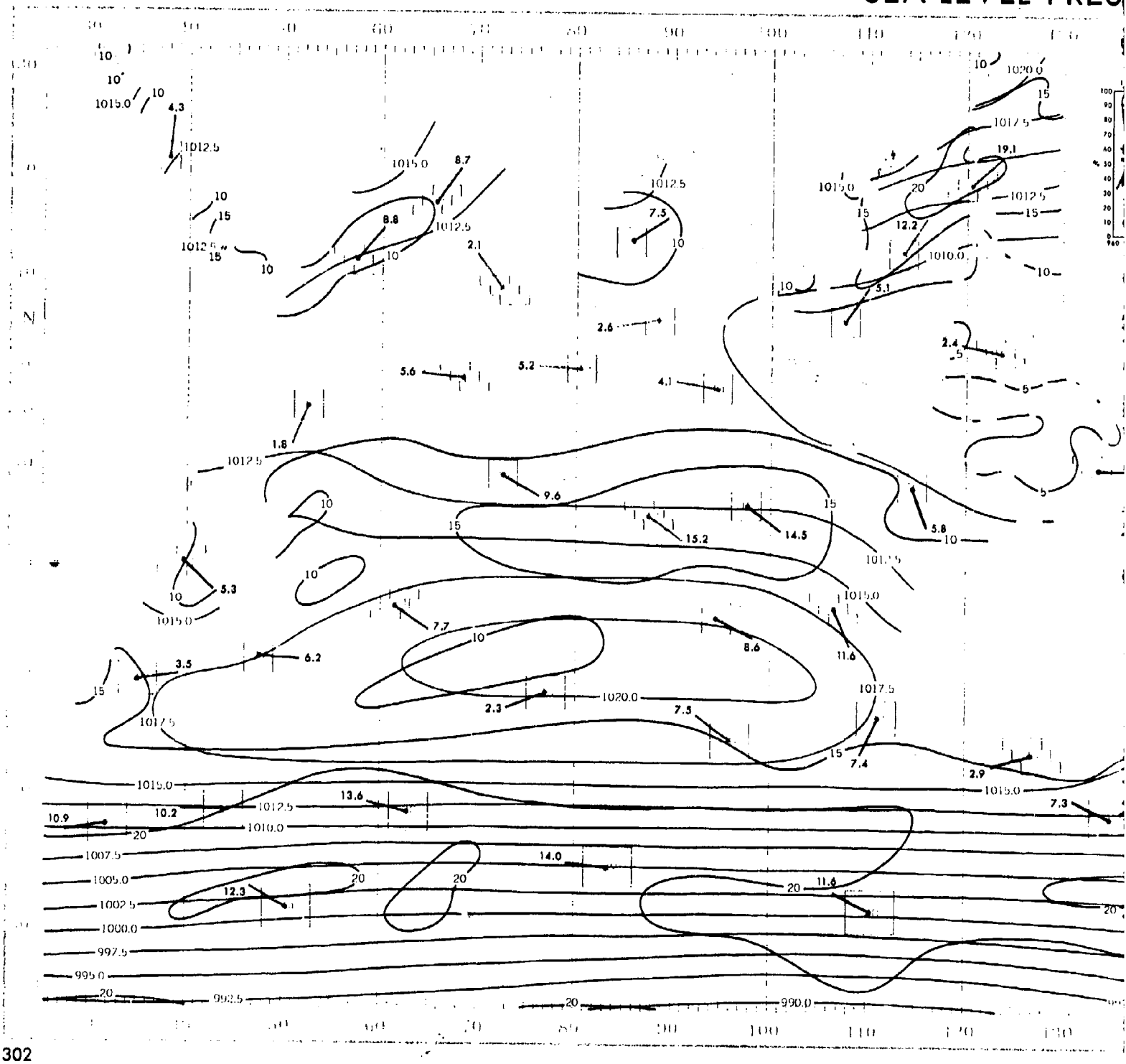
LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	8	0	1
<8 & OR <2	0	4	5	1	2
VSBY <2	0	2	5	1	2
<10 & OR <2	0	5	9	1	2
<20 & OR <5	0	7	19	12	4
VSBY ≥5	2	9	36	32	7
≥50 & ≥5	2	3	16	11	3
NC & ≥10	1	3	8	5	1

116

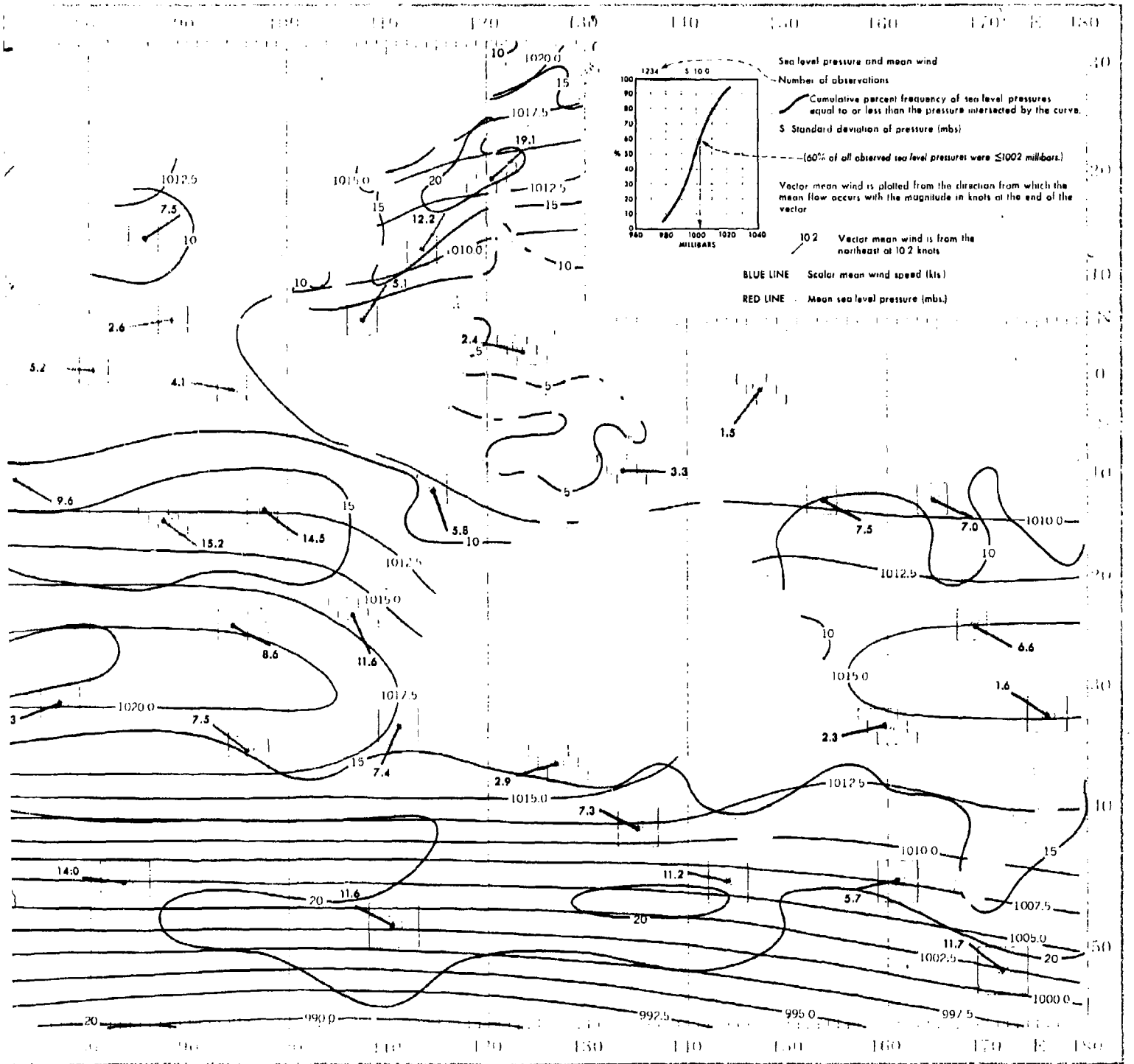
itive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER

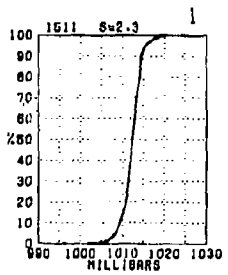
SEA LEVEL PRES

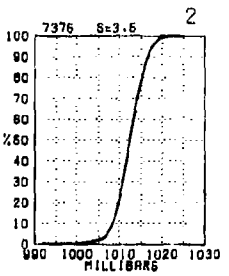


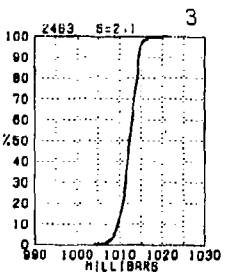
SEA LEVEL PRESSURE AND MEAN WIND

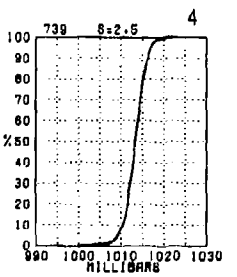


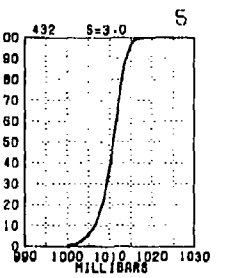
SEA LEVEL PRESSURE

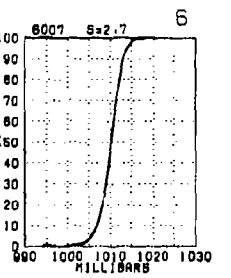


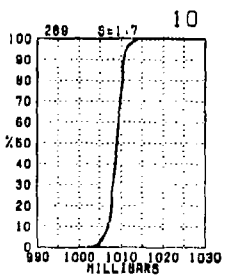


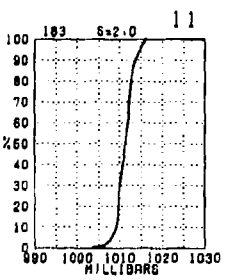


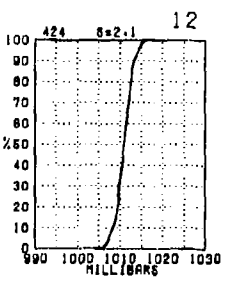


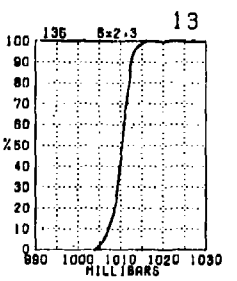


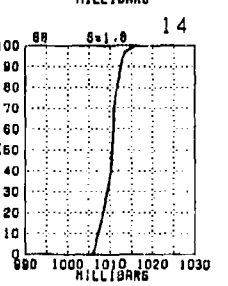


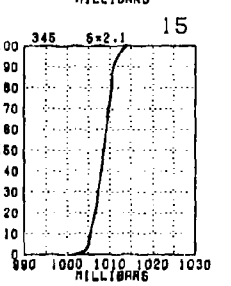


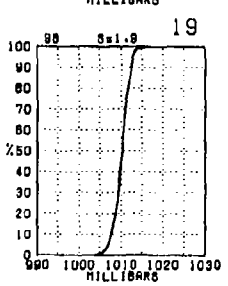


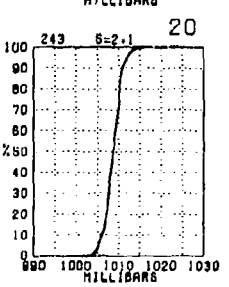


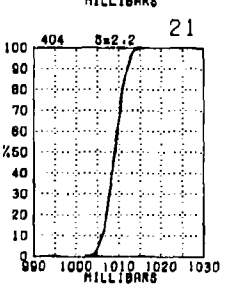


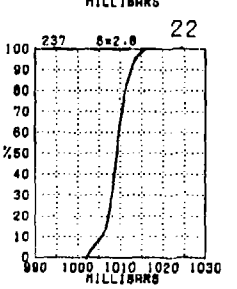


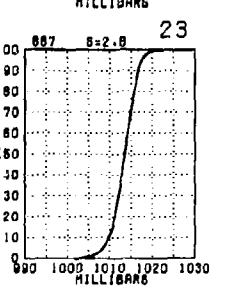


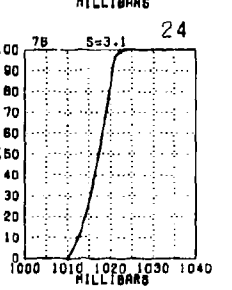


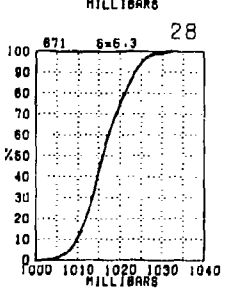


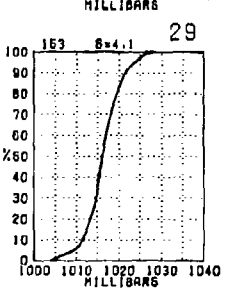


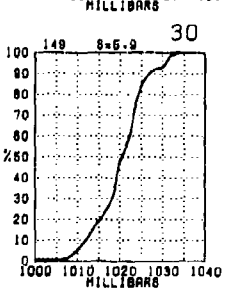


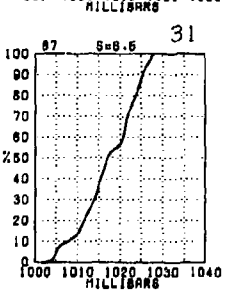


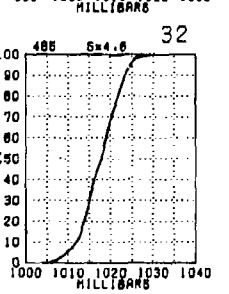


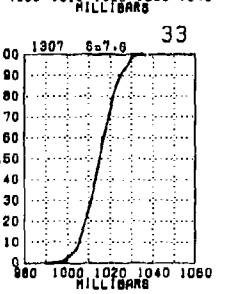


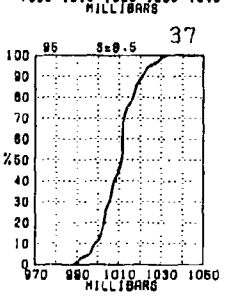


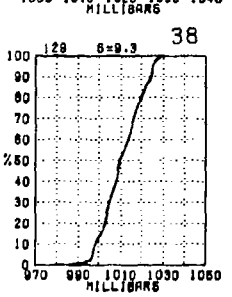


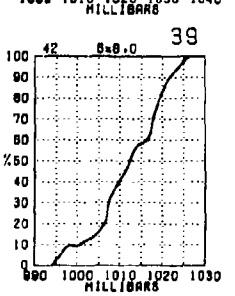












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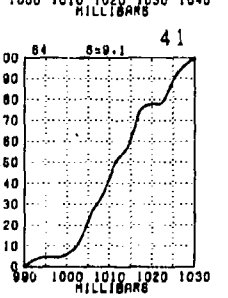
INSUFFICIENT DATA



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INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without regar
The isopleth analyses (opposite page) are based on all available data subjectively adjusted w

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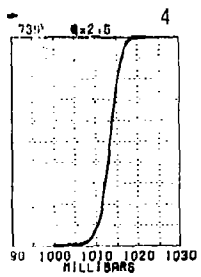

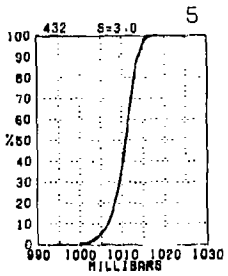

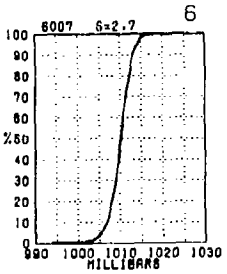

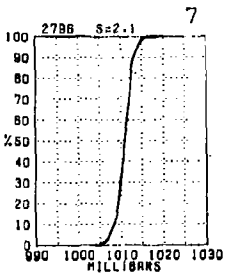

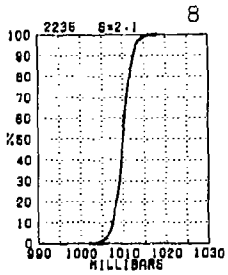

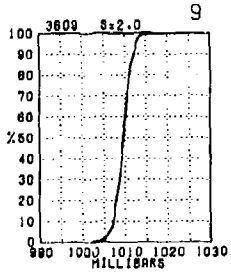

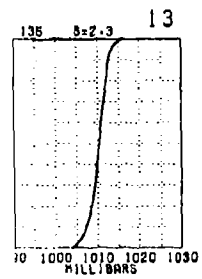

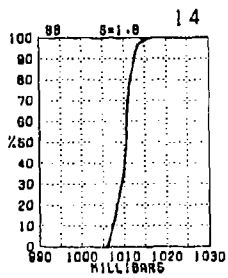

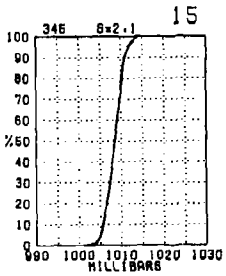

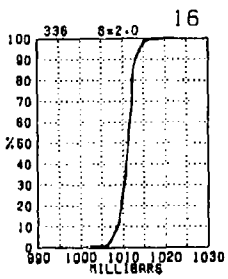

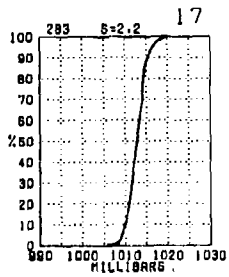

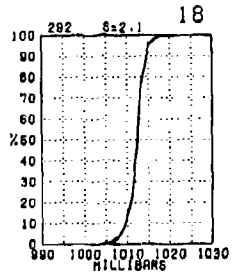

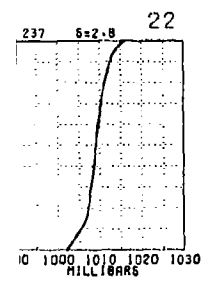

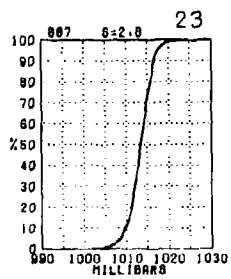

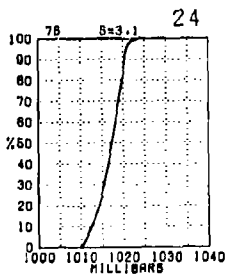

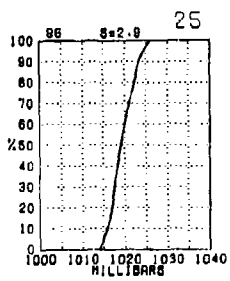

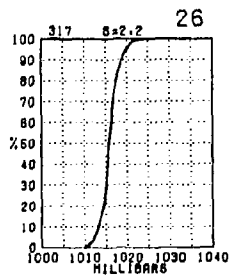

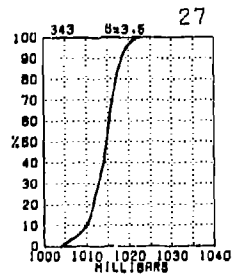

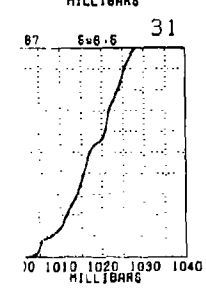

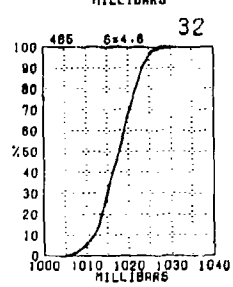

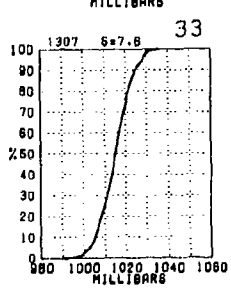

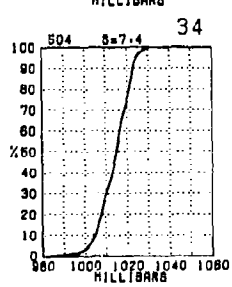

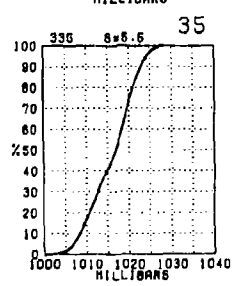

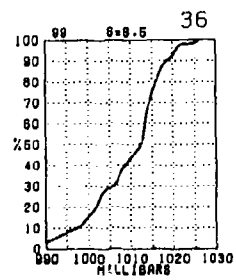

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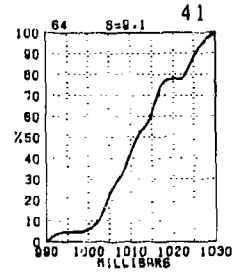

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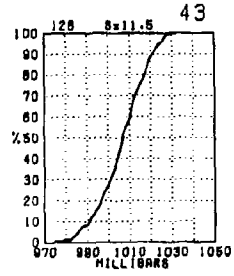

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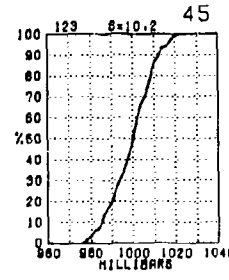

SUFFICIENT DATA

INSUFFICIENT DATA

INSUFFICIENT DATA

re compilation of available data for specified areas without regard to suspected biases.
te page) are based on all available data subjectively adjusted where bias was evident.

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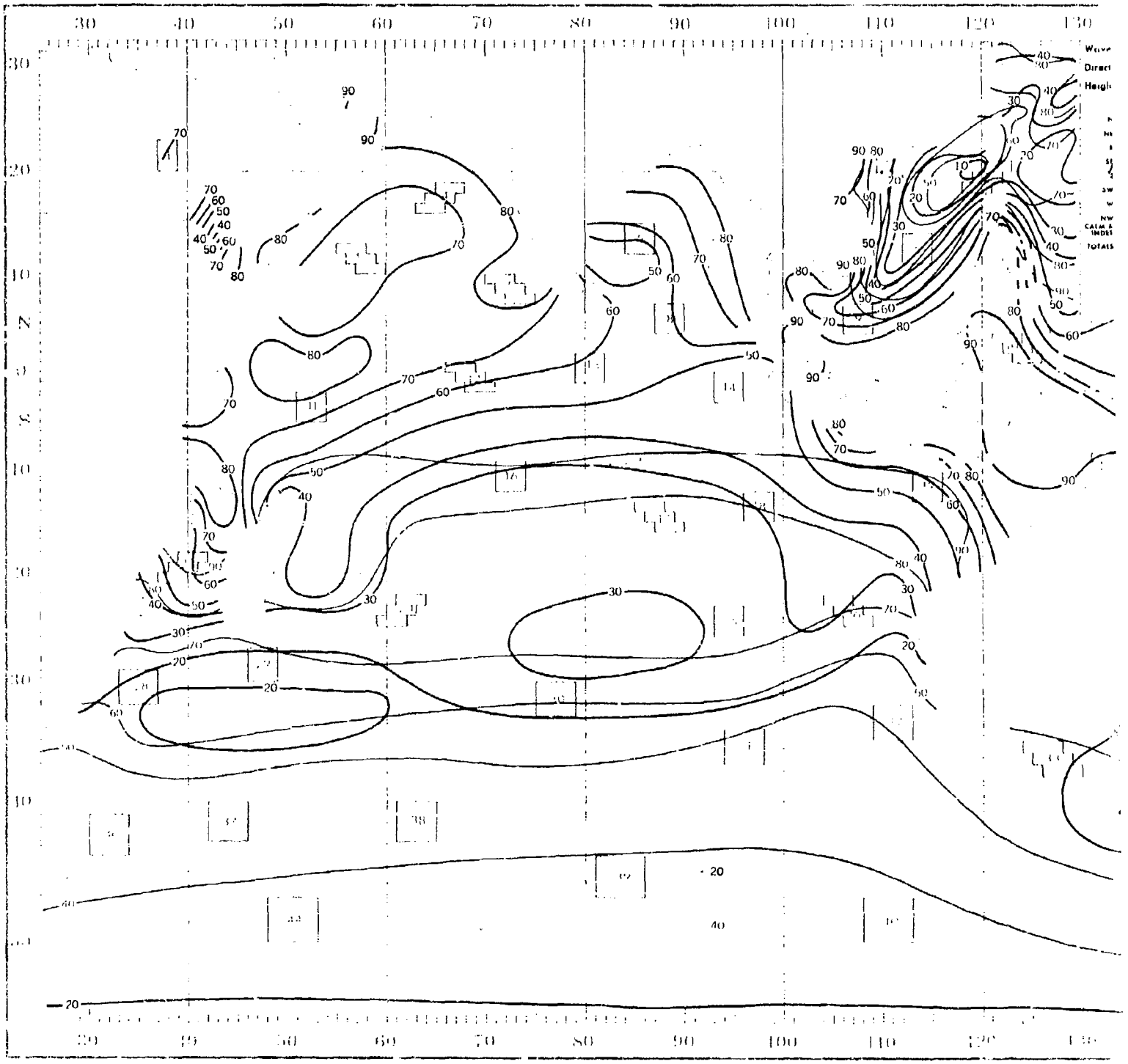
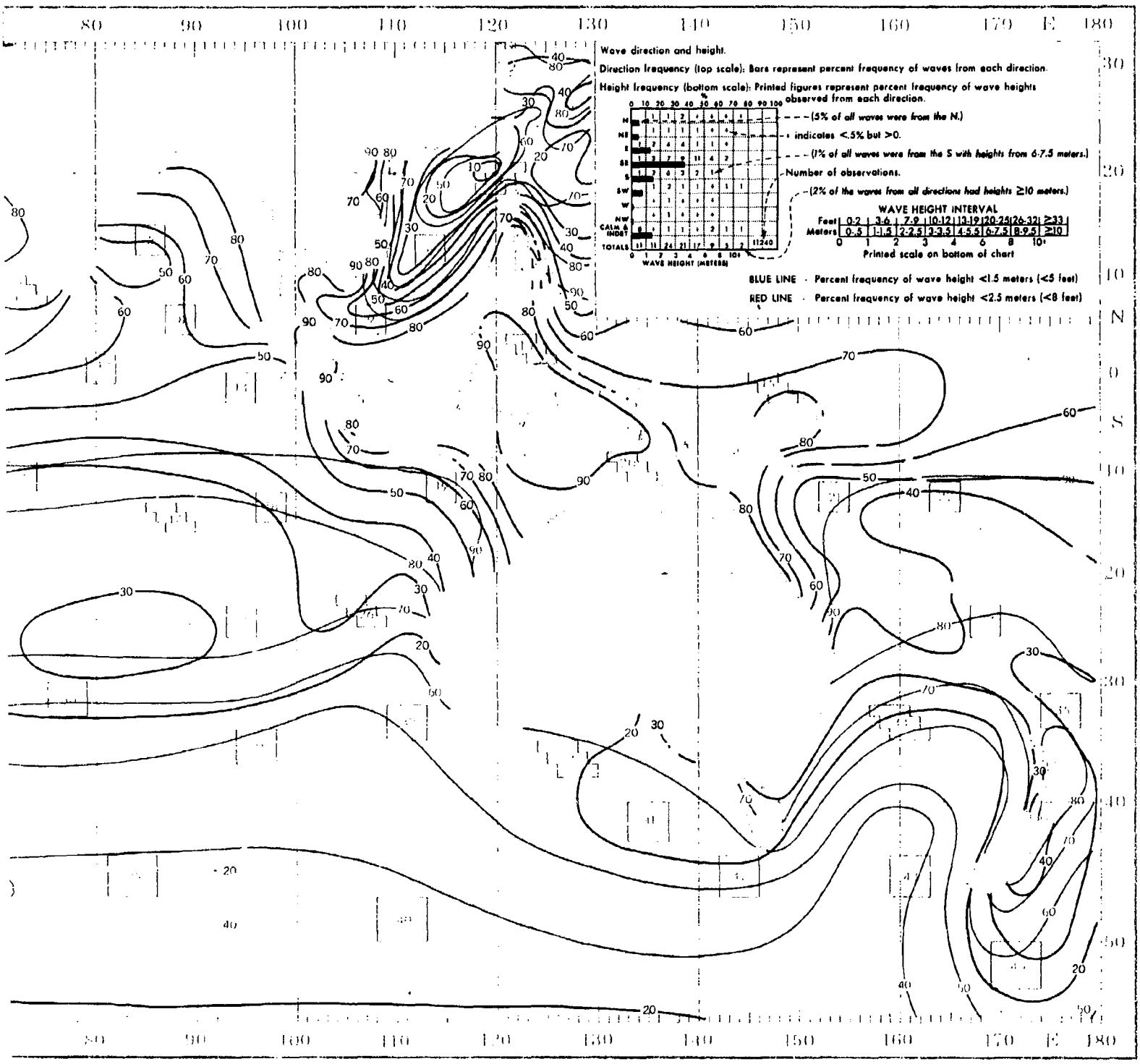
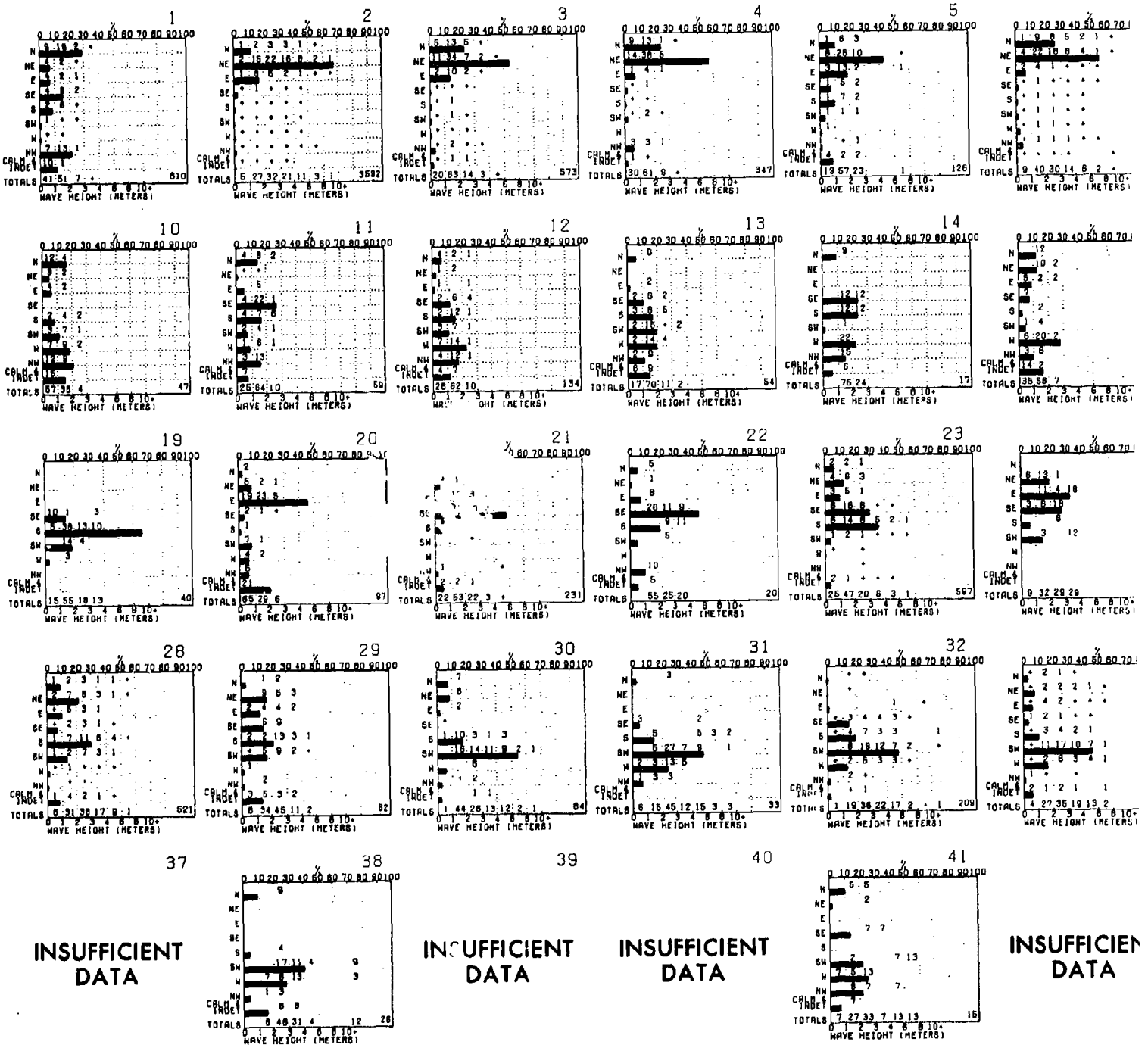
WAVES



WAVES (<1.5 AND <2.5 METERS)



WAVE DIRECTION AND HEIGHT



Graphs represent the objective compilation of available data for specified areas witho
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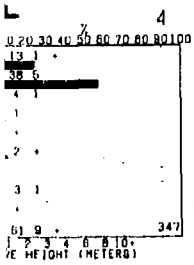
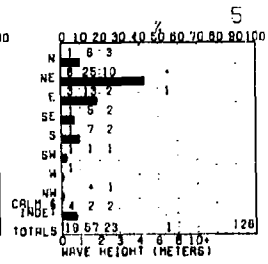
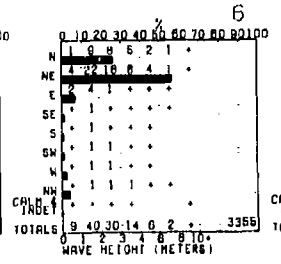
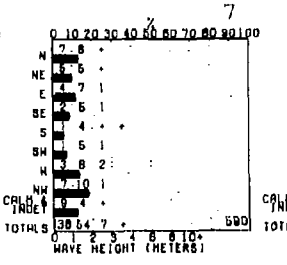
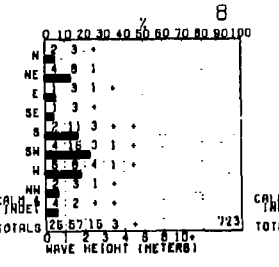
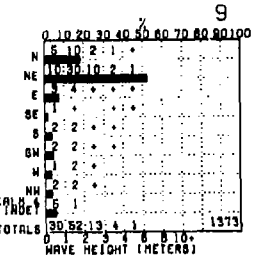


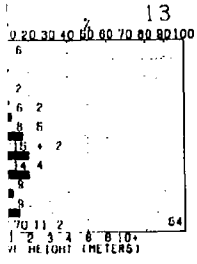


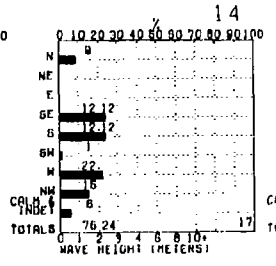


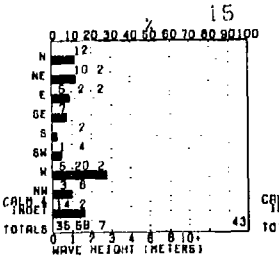


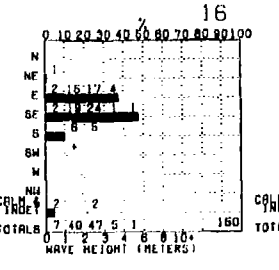


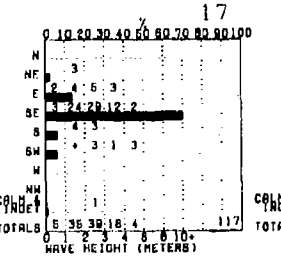


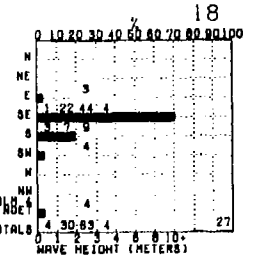


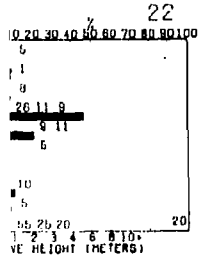


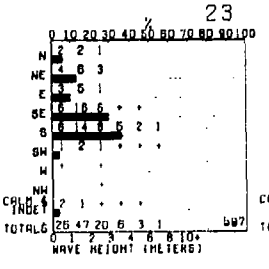


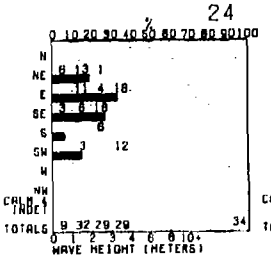


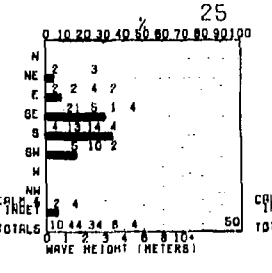


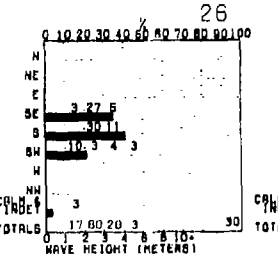


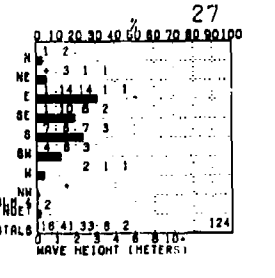


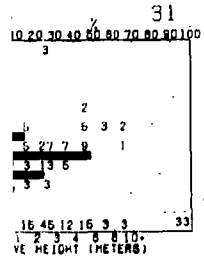


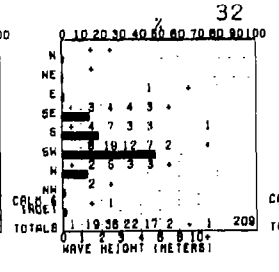


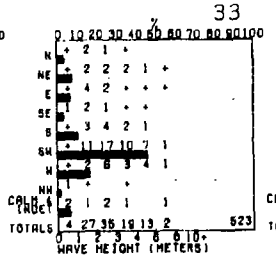


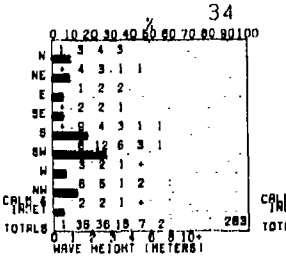


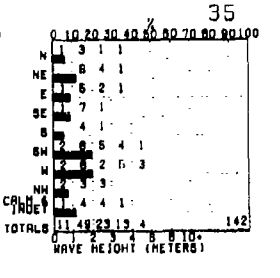










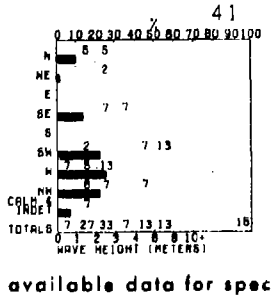


36

INSUFFICIENT DATA

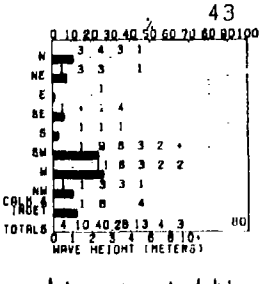
40

SUFFICIENT DATA



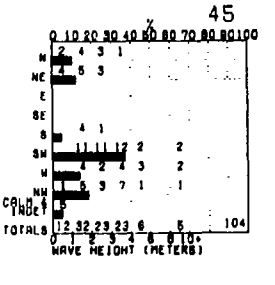
42

INSUFFICIENT DATA



44

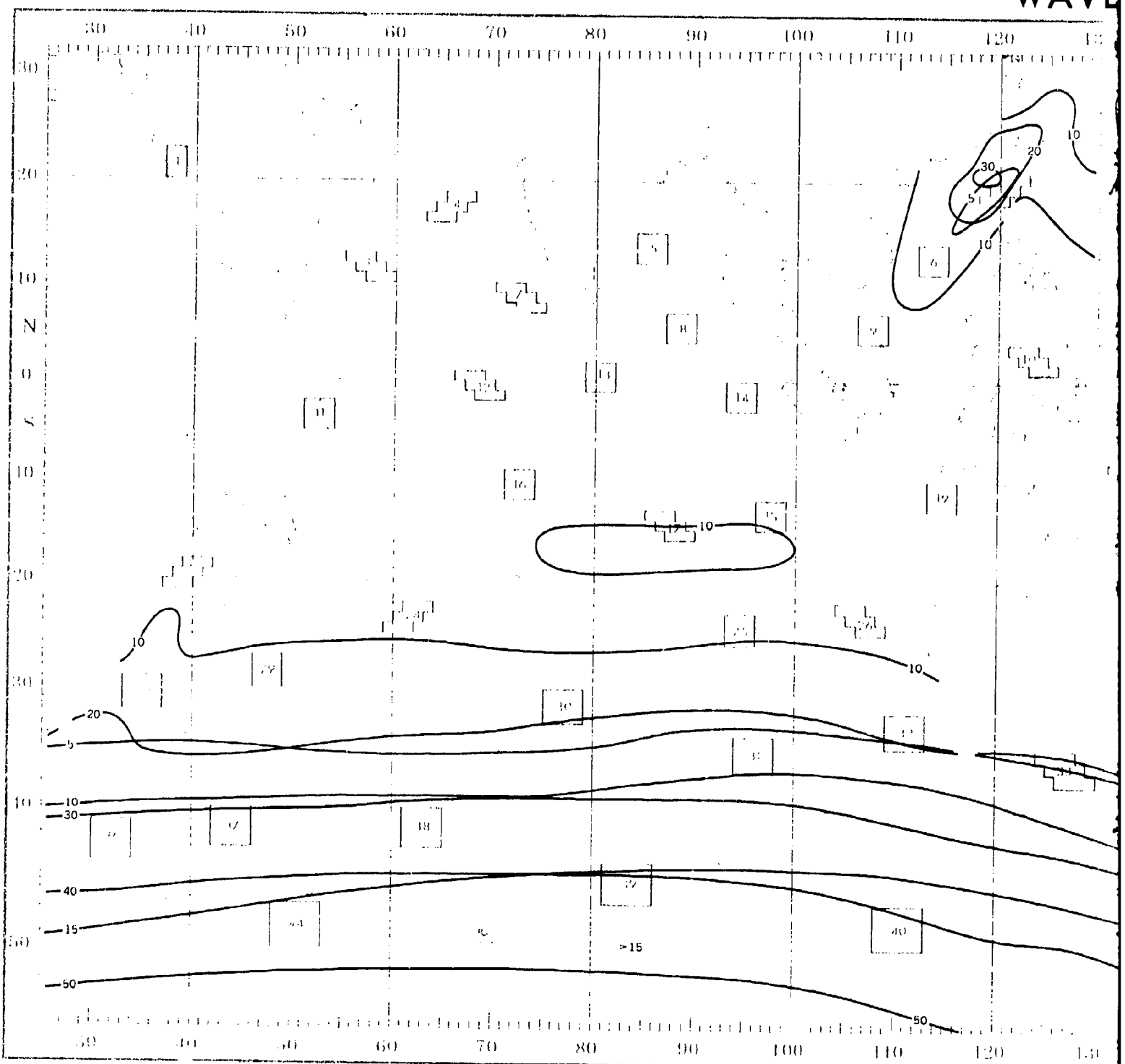
INSUFFICIENT DATA



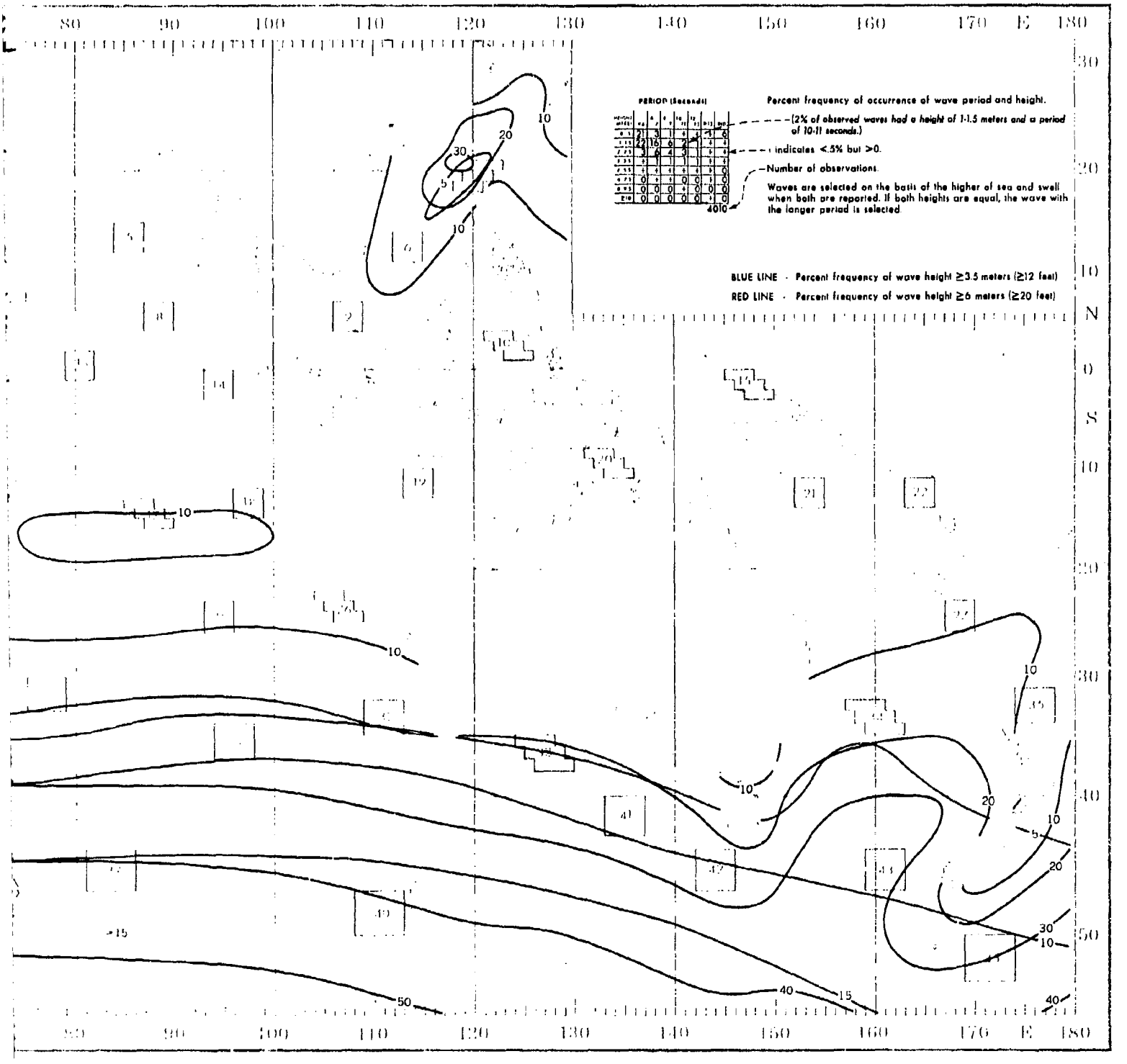
a compilation of available data for specified areas without regard to suspected biases.
e page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER

WAVE



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	26	2	+	0	0	0	18
1.5-3.0	29	12	2	+	0	+	3
3.0-4.5	2	3	1	+	0	0	1
4.5-6.0	+	+	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

682

2

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	4	1	+	+	0	0	+
1.5-3.0	13	9	3	1	+	+	+
3.0-4.5	5	11	10	5	1	+	+
4.5-6.0	1	5	6	5	3	1	+
6.0-7.5	+	2	3	3	2	1	+
7.5-9.0	0	+	1	1	1	+	+
>9.0	0	+	+	+	+	+	+

3611

3

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	15	2	0	+	0	0	4
1.5-3.0	30	19	5	1	0	0	6
3.0-4.5	3	4	4	1	0	0	2
4.5-6.0	+	+	1	+	+	0	1
6.0-7.5	0	0	+	0	+	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

585

4

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	26	2	1	1	0	0	3
1.5-3.0	36	14	5	1	1	0	2
3.0-4.5	2	3	1	1	0	+	1
4.5-6.0	0	0	+	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

360

5

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	14	3	1	0	0	0	7
1.5-3.0	22	21	6	0	1	1	3
3.0-4.5	3	7	9	1	0	0	1
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	0	1	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

136

6

PERIOD (SECOND

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	8	1	+	+	0	
1.5-3.0	18	16	4	1	+	
3.0-4.5	4	11	10	3	1	
4.5-6.0	+	3	4	3	1	
6.0-7.5	1	1	2	1	1	
7.5-9.0	0	+	+	1	+	
>9.0	0	0	0	0	0	

10

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	36	4	8	0	0	0	15
1.5-3.0	15	15	4	0	0	0	0
3.0-4.5	0	4	0	0	0	0	0
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

53

11

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	1	0	1	0	0	12
1.5-3.0	21	29	4	0	0	0	1
3.0-4.5	1	7	0	0	0	0	0
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

68

12

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	16	6	1	1	0	0	7
1.5-3.0	16	21	11	3	1	0	7
3.0-4.5	1	4	4	0	0	0	0
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

140

13

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	0	2	4	0	0	11
1.5-3.0	16	25	11	4	4	0	9
3.0-4.5	2	2	2	2	4	0	0
4.5-6.0	0	2	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

87

14

INSUFFICIENT DATA

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	23	0	4	0	0	
1.5-3.0	21	15	4	11	0	
3.0-4.5	2	2	2	0	0	
4.5-6.0	0	0	0	0	0	
6.0-7.5	0	0	0	0	0	
7.5-9.0	0	0	0	0	0	
>9.0	0	0	0	0	0	

19

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	15	2	0	0	0	0	0
1.5-3.0	0	20	20	15	0	0	0
3.0-4.5	0	0	10	2	5	0	0
4.5-6.0	0	5	5	0	0	0	2
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

41

20

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	48	0	3	1	0	0	18
1.5-3.0	17	8	2	0	0	0	0
3.0-4.5	0	5	1	0	0	0	0
4.5-6.0	0	0	0	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

109

21

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	18	3	1	0	0	0	3
1.5-3.0	21	21	5	+	1	0	1
3.0-4.5	2	9	7	3	0	0	1
4.5-6.0	0	1	2	0	0	0	0
6.0-7.5	0	+	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

238

22

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	9	0	0	0	0	0	4
1.5-3.0	22	17	0	0	0	0	9
3.0-4.5	0	9	3	4	0	0	0
4.5-6.0	0	13	4	0	0	0	0
6.0-7.5	0	0	0	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

23

23

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	21	7	+	1	0	0	4
1.5-3.0	22	12	6	2	2	+	1
3.0-4.5	3	8	3	2	+	+	2
4.5-6.0	1	1	1	1	0	0	1
6.0-7.5	+	1	1	0	+	0	+
7.5-9.0	0	0	+	0	0	0	0
>9.0	0	0	0	0	0	0	0

624

24

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	8	0	3	3	0	
1.5-3.0	14	9	9	0	0	
3.0-4.5	3	11	14	0	0	
4.5-6.0	0	14	6	3	0	
6.0-7.5	0	0	0	0	0	
7.5-9.0	0	0	0	0	0	
>9.0	0	0	0	0	0	

28

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	5	+	0	0	0	0	2
1.5-3.0	11	9	4	2	1	0	5
3.0-4.5	8	12	10	4	2	0	3
4.5-6.0	2	6	4	1	1	+	2
6.0-7.5	+	2	2	1	2	+	2
7.5-9.0	0	+	+	0	0	+	0
>9.0	0	0	0	0	0	0	0

629

29

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	8	0	0	0	0	0	5
1.5-3.0	15	6	3	3	2	0	3
3.0-4.5	3	17	5	6	5	0	3
4.5-6.0	2	3	0	3	0	2	2
6.0-7.5	0	0	2	0	0	0	0
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

65

30

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	1	0	0	0	0	0	0
1.5-3.0	11	17	8	6	2	0	0
3.0-4.5	0	5	6	8	2	0	4
4.5-6.0	0	1	1	6	2	0	2
6.0-7.5	0	0	2	6	2	0	1
7.5-9.0	0	0	1	1	0	0	0
>9.0	0	0	0	0	1	0	0

84

31

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	6	0	0	0	0	0	0
1.5-3.0	0	8	6	3	0	0	0
3.0-4.5	12	9	9	15	0	0	0
4.5-6.0	0	3	3	3	3	0	0
6.0-7.5	0	0	0	9	8	0	0
7.5-9.0	0	0	3	0	0	0	0
>9.0	0	0	0	0	3	0	0

33

32

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	+	0	0	0	0	0	+
1.5-3.0	6	6	4	1	1	0	1
3.0-4.5	1	8	13	8	3	1	1
4.5-6.0	0	2	3	8	5	3	+
6.0-7.5	+	1	3	3	6	3	0
7.5-9.0	0	1	0	0	0	1	0
>9.0	0	0	0	0	+	0	0

209

33

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13
0-1.5	3	0	0	0	0	
1.5-3.0	7	9	8	3	1	
3.0-4.5	1	9	11	7	3	
4.5-6.0	0	1	4	3	4	
6.0-7.5	0	0	1	+	+	
7.5-9.0	0	0	0	0	0	
>9.0	0	0	0	0	0	

37

INSUFFICIENT DATA

38

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-1.5	0	0	0	0	0	0	0
1.5-3.0	0	8	0	0	0	0	0
3.0-4.5	0	19	12	8	0	0	8
4.5-6.0	0	0	8	8	8	0	8
6.0-7.5	0	0	0	0	0	0	4
7.5-9.0	0	0	0	0	0	0	0
>9.0	0	0	0	0	0	0	0

26

39

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

INSUFFICIEN DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

NOVEMBER

4

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	26	2	1	1	0	0	3
.5-1.5	36	14	5	1	1	0	2
1.5-2.5	2	3	1	1	0	*	1
2.5-3.5	0	0	*	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

380

5

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	14	3	1	0	0	0	7
.5-1.5	22	21	6	0	1	1	3
1.5-2.5	3	7	9	1	0	0	1
2.5-3.5	0	0	0	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	1	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

136

6

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	1	*	*	0	0	*
.5-1.5	18	16	4	1	*	*	1
1.5-2.5	4	11	10	3	1	*	*
2.5-3.5	1	3	4	3	1	*	*
3.5-4.5	*	1	2	1	1	*	*
4.5-5.5	0	*	*	1	*	*	*
5.5-6.5	0	*	*	*	*	*	0
>6.5	0	0	0	0	0	0	0

3382

7

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	27	3	1	1	0	0	13
.5-1.5	19	15	6	2	1	*	6
1.5-2.5	1	2	2	*	*	*	1
2.5-3.5	0	*	0	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

652

8

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	19	2	1	1	0	0	8
.5-1.5	20	19	8	3	1	0	4
1.5-2.5	1	5	5	1	1	*	1
2.5-3.5	1	1	1	*	1	0	*
3.5-4.5	0	0	*	*	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

769

9

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	25	2	1	*	0	0	7
.5-1.5	22	16	7	1	*	*	2
1.5-2.5	2	5	3	1	*	0	*
2.5-3.5	1	1	1	*	*	*	*
3.5-4.5	*	*	1	*	0	*	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

1470

13

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	2	4	0	0	11
.5-1.5	16	25	11	4	4	0	9
1.5-2.5	2	2	2	2	4	0	0
2.5-3.5	0	2	0	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

67

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	23	0	4	0	0	0	13
.5-1.5	21	16	4	11	0	0	2
1.5-2.5	2	2	2	0	0	0	0
2.5-3.5	0	0	0	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

47

16

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	5
.5-1.5	11	21	5	1	0	0	1
1.5-2.5	3	18	15	5	1	1	5
2.5-3.5	0	0	2	0	1	1	0
3.5-4.5	0	0	0	1	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

151

17

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	4	1	0	0	0	0	0
.5-1.5	8	15	7	2	0	0	4
1.5-2.5	3	10	16	2	5	2	2
2.5-3.5	1	3	7	3	2	0	0
3.5-4.5	0	1	0	1	0	3	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	1	0	0

117

18

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	4	0	0	0	0	0
.5-1.5	0	26	4	0	0	0	0
1.5-2.5	0	25	22	7	4	0	4
2.5-3.5	0	0	0	4	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

27

22

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	9	0	0	0	0	0	4
.5-1.5	22	17	0	0	0	0	9
1.5-2.5	0	9	9	4	0	0	0
2.5-3.5	0	13	4	0	0	0	0
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

23

23

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	21	7	*	1	0	0	4
.5-1.5	22	12	8	2	2	*	1
1.5-2.5	3	8	3	2	*	*	2
2.5-3.5	1	1	1	1	0	0	1
3.5-4.5	*	1	1	0	*	0	*
4.5-5.5	0	0	*	*	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

624

24

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	6	0	3	3	0	0	0
.5-1.5	14	9	9	0	0	0	0
1.5-2.5	3	11	14	0	0	0	0
2.5-3.5	0	14	6	3	0	0	6
3.5-4.5	0	0	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

35

25

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	0	0	0	0	0	2
.5-1.5	10	14	18	0	0	0	4
1.5-2.5	4	18	0	10	0	4	0
2.5-3.5	0	2	0	4	0	2	0
3.5-4.5	2	2	0	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

50

26

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	0	0	0	0	0	0	0
.5-1.5	0	10	7	0	0	0	0
1.5-2.5	3	27	10	13	7	0	0
2.5-3.5	0	0	10	3	3	3	0
3.5-4.5	0	0	0	3	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

30

27

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	17	0	0	0	0	0	2
.5-1.5	18	11	8	2	0	0	1
1.5-2.5	1	16	8	4	2	1	1
2.5-3.5	0	0	4	3	0	1	0
3.5-4.5	0	0	2	0	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

128

31

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	6	0	0	0	0	0	0
.5-1.5	0	6	6	3	0	0	0
1.5-2.5	12	9	9	15	0	0	0
2.5-3.5	0	3	3	3	3	0	0
3.5-4.5	0	0	0	9	6	0	0
4.5-5.5	0	0	3	0	0	0	0
5.5-6.5	0	0	0	0	3	0	0
>6.5	0	0	0	0	0	0	0

33

32

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	*	0	0	0	0	0	*
.5-1.5	6	6	4	1	1	0	1
1.5-2.5	1	8	13	8	3	1	1
2.5-3.5	0	2	3	8	6	3	*
3.5-4.5	*	1	3	3	6	3	0
4.5-5.5	0	1	0	0	0	1	0
5.5-6.5	0	0	0	0	*	0	0
>6.5	0	0	0	0	0	0	1

209

33

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	2
.5-1.5	7	9	8	3	1	1	1
1.5-2.5	1	9	11	7	3	1	3
2.5-3.5	*	4	4	7	3	*	1
3.5-4.5	0	1	4	3	2	1	*
4.5-5.5	0	0	1	1	*	*	1
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

525

34

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	3	0	0	0	0	0	0
.5-1.5	13	12	8	1	1	0	1
1.5-2.5	3	14	13	5	*	0	1
2.5-3.5	*	7	3	3	2	1	1
3.5-4.5	0	2	2	2	0	*	0
4.5-5.5	0	0	1	1	0	*	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

287

35

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	8	2	0	0	0	0	1
.5-1.5	10	19	10	4	1	0	5
1.5-2.5	4	6	9	1	1	0	2
2.5-3.5	1	6	4	1	1	0	1
3.5-4.5	0	1	1	1	0	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	0	0	0	0	0	0

143

36

INSUFFICIENT DATA

40

INSUFFICIENT DATA

41

INSUFFICIENT DATA

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	5	0	0	1	0	0	0
.5-1.5	5	2	2	0	0	0	0
1.5-2.5	5	16	13	0	1	0	4
2.5-3.5	0	11	10	5	1	0	0
3.5-4.5	0	1	4	1	2	0	4
4.5-5.5	0	2	0	0	0	1	0
5.5-6.5	0	0	1	0	0	0	1
>6.5	0	0	0	0	0	0	0

62

44

INSUFFICIENT DATA

45

PERIOD (SECONDS)

HEIGHT (METERS)	<6	6- 7	8- 9	10- 11	12- 13	>13	IND
0-.5	7	1	0	0	0	0	5
.5-1.5	14	8	8	1	2	0	1
1.5-2.5	8	10	3	1	0	0	1
2.5-3.5	3	4	9	7	0	0	1
3.5-4.5	0	2	0	3	1	0	0
4.5-5.5	0	0	0	0	0	0	0
5.5-6.5	0	0	0	0	0	0	0
>6.5	0	4	0	0	0	1	0

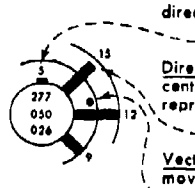
105

jective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

NOVEMBER

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).

Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.



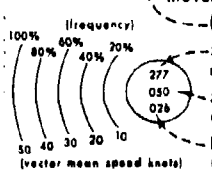
(Centers moving toward the N had a mean speed of 5 knots.)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

(35% of all tropical cyclones moved toward the NE.)

Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

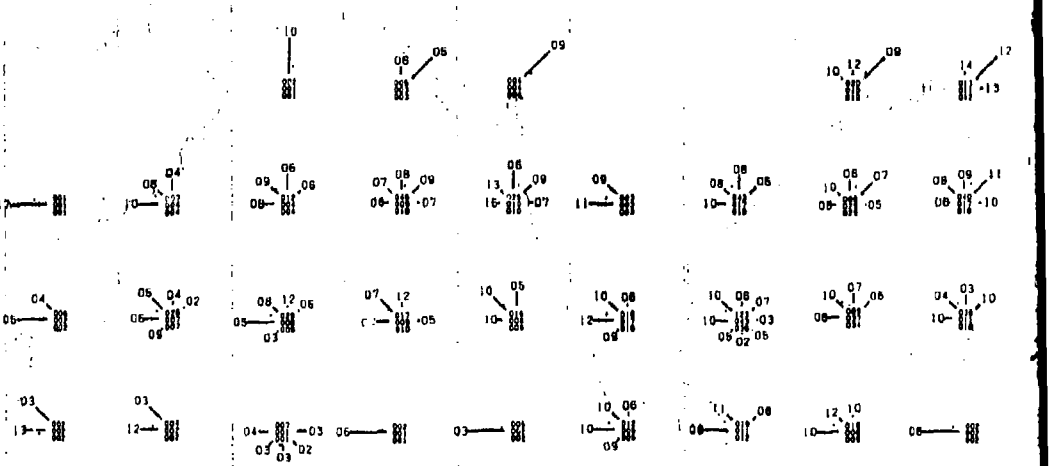
(Mean vector movement of all centers was toward 75° at 7 knots.)



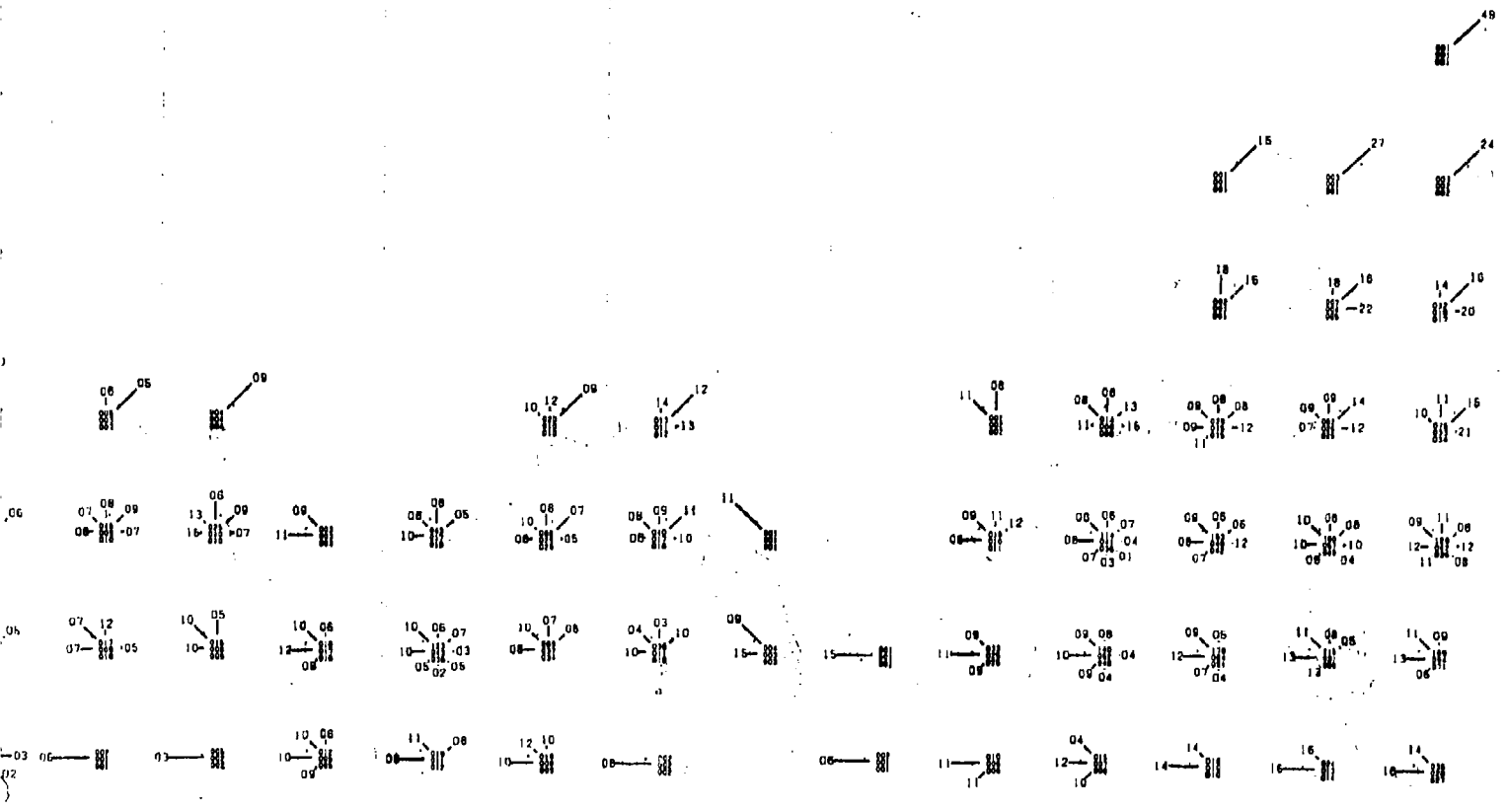
Statistics for this rose are based on 277 twelve hour movements.

50 individual storms were observed in the 5° X 5° area during the period of record.

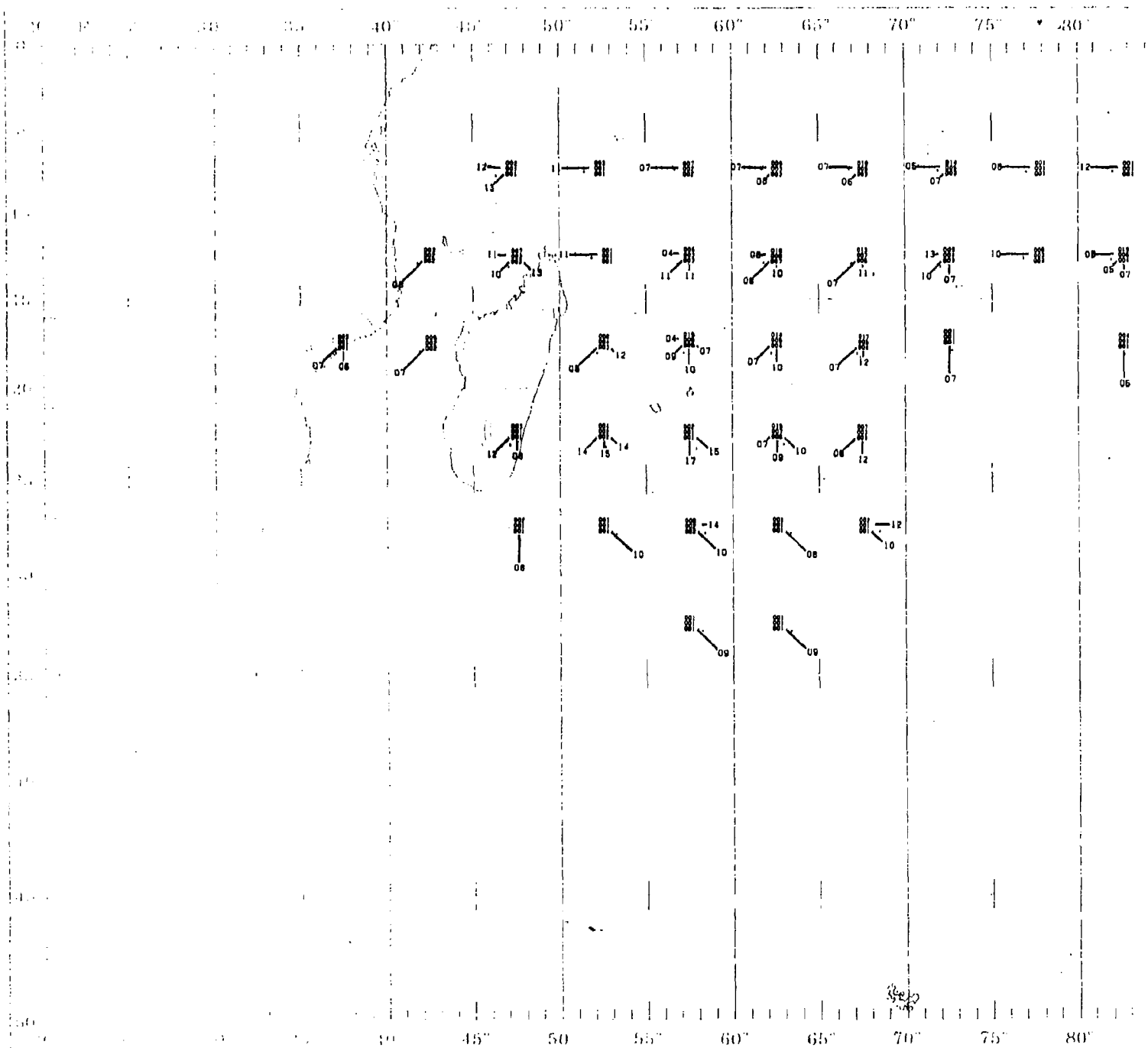
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.



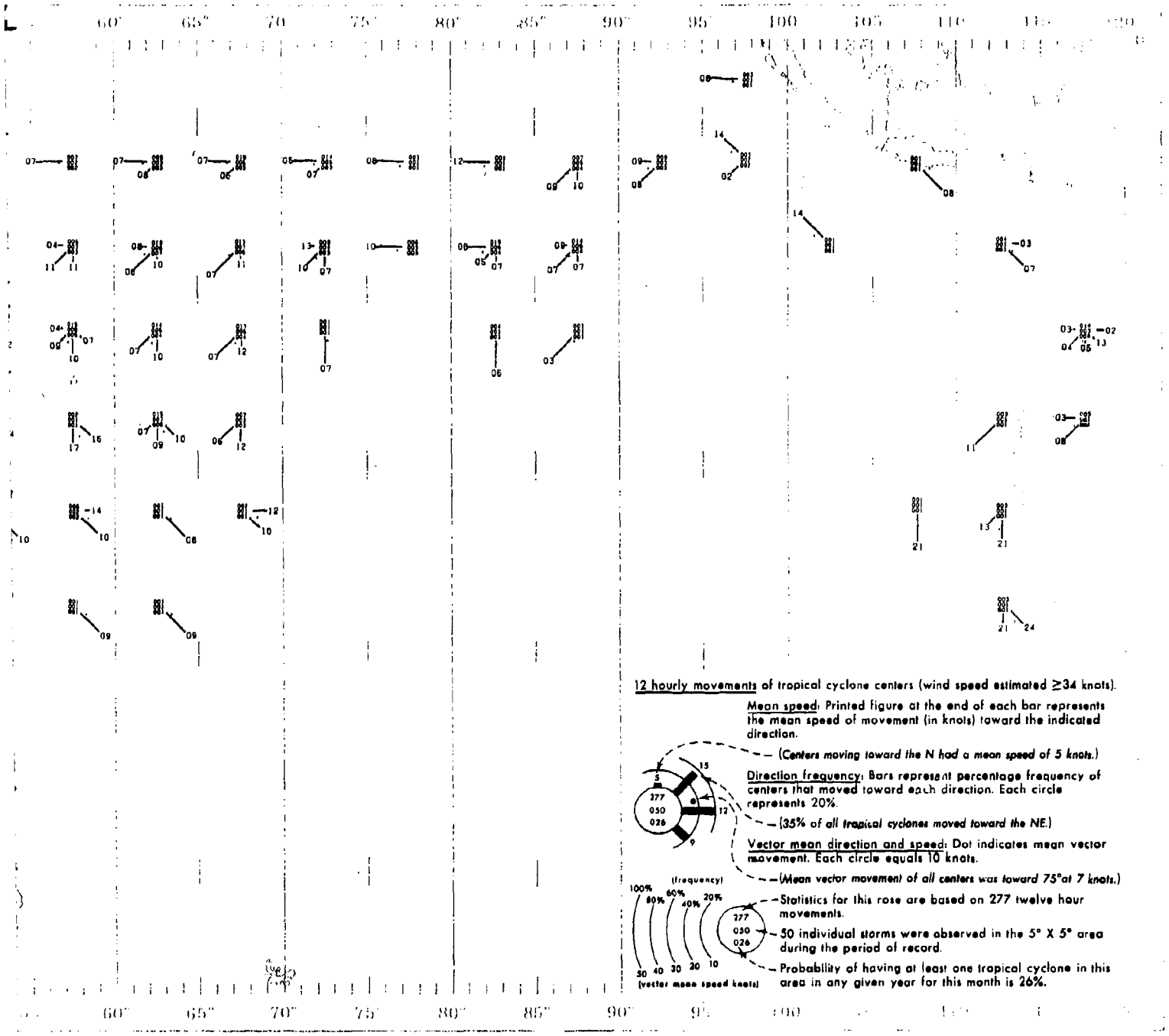
TROPICAL CYCLONE



TROPICAL CYCLONE



NOVEMBER



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(Mean vector movement of all centers was toward 75° at 7 knots.)

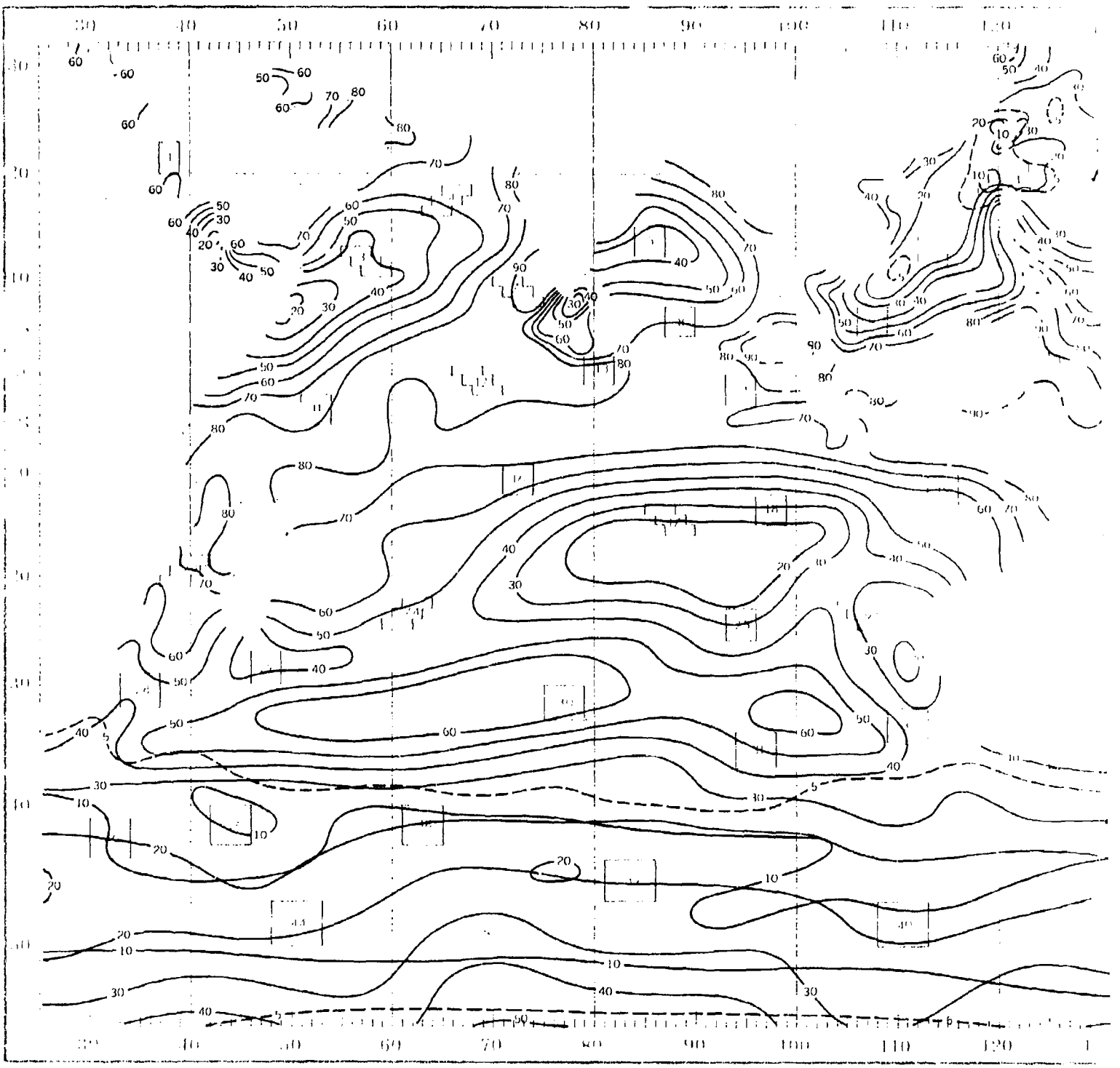
(frequency) 100% 80% 60% 40% 20%

50 40 30 20 10 (vector mean speed knots)

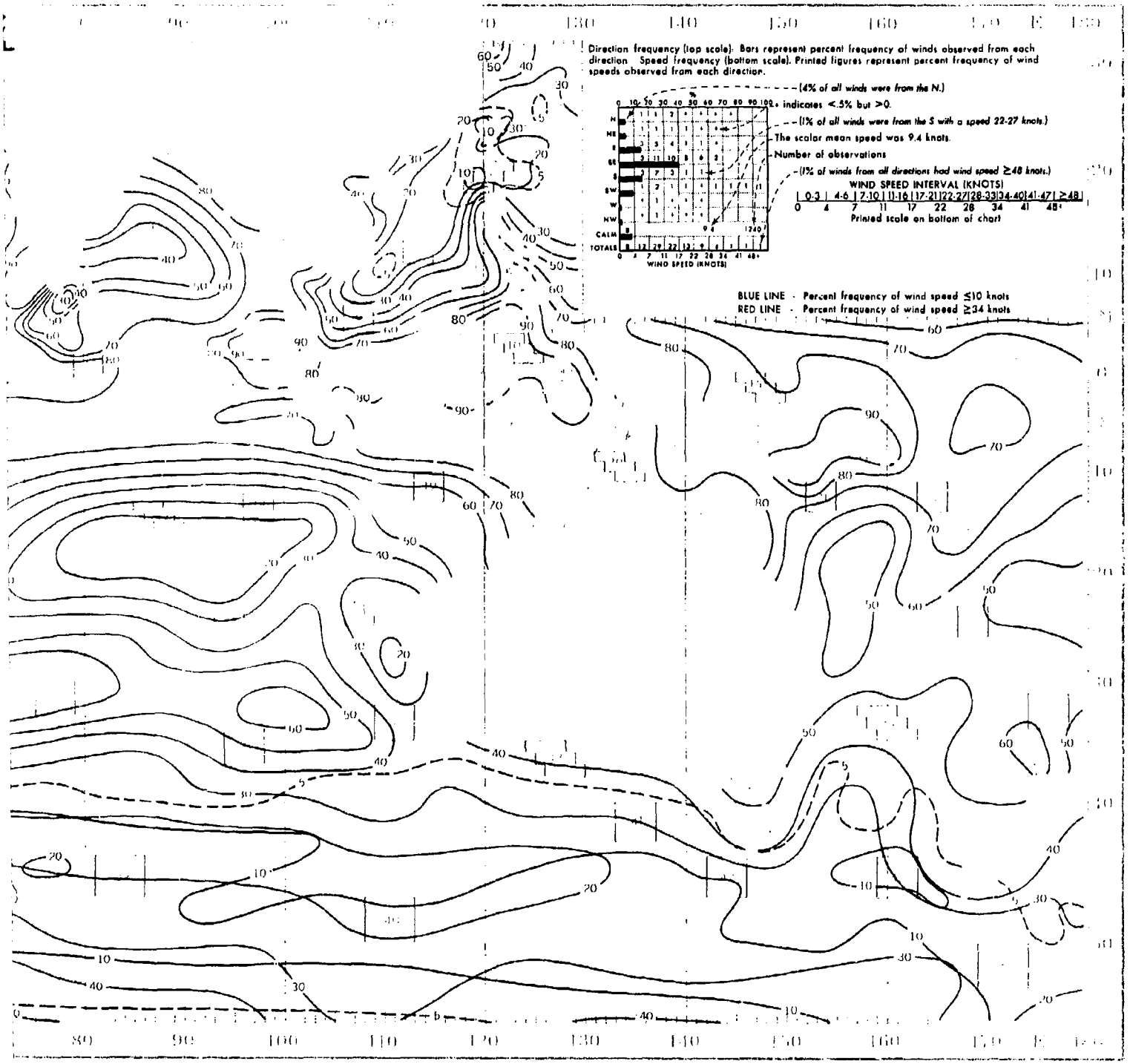
277 050 026

- Statistics for this rose are based on 277 twelve hour movements.
- 50 individual storms were observed in the 5° X 5° area during the period of record.
- Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

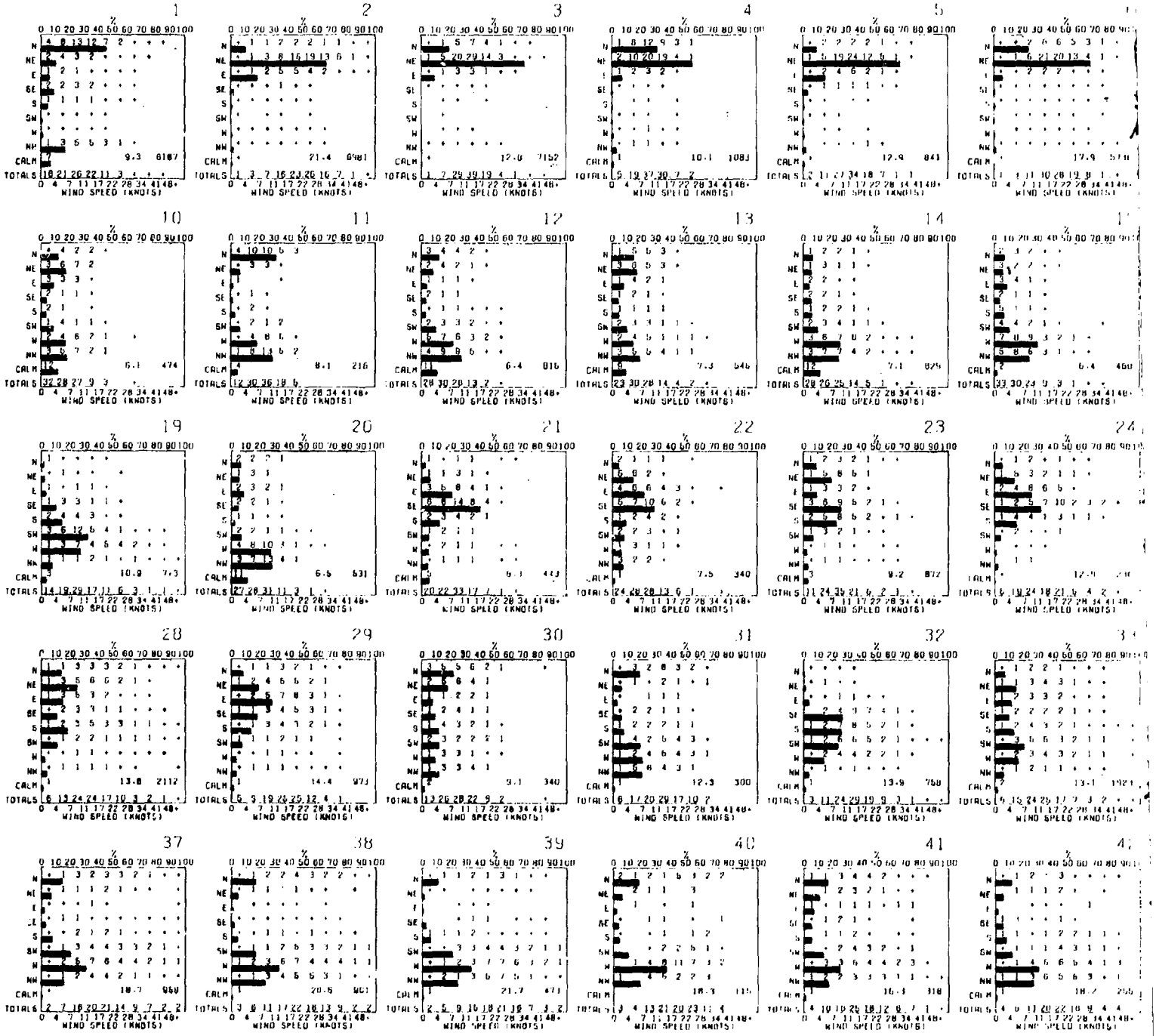
DECEMBER



SURFACE WINDS

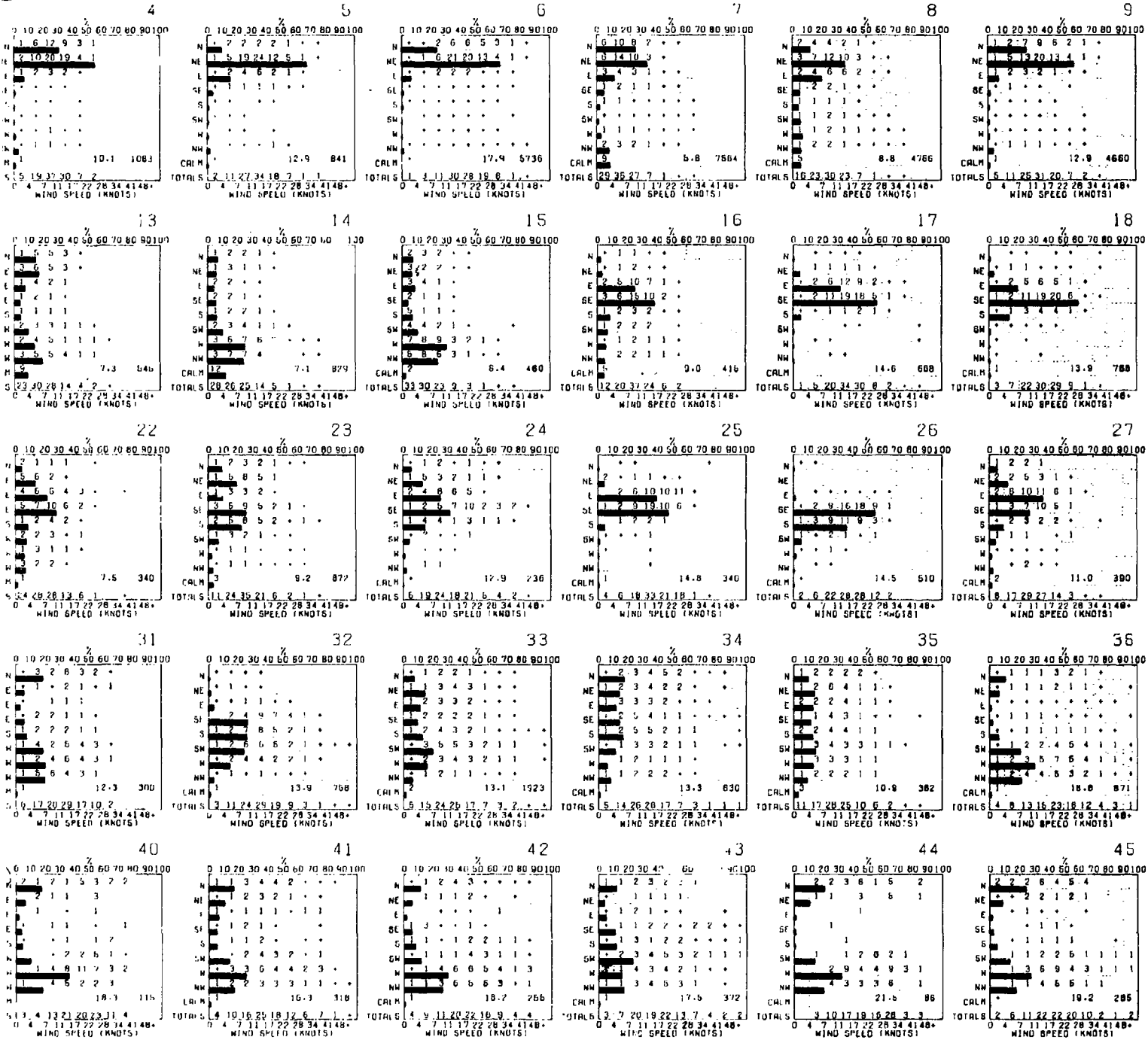


WIND DIRECTION AND SPEED



Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

DECEMBER



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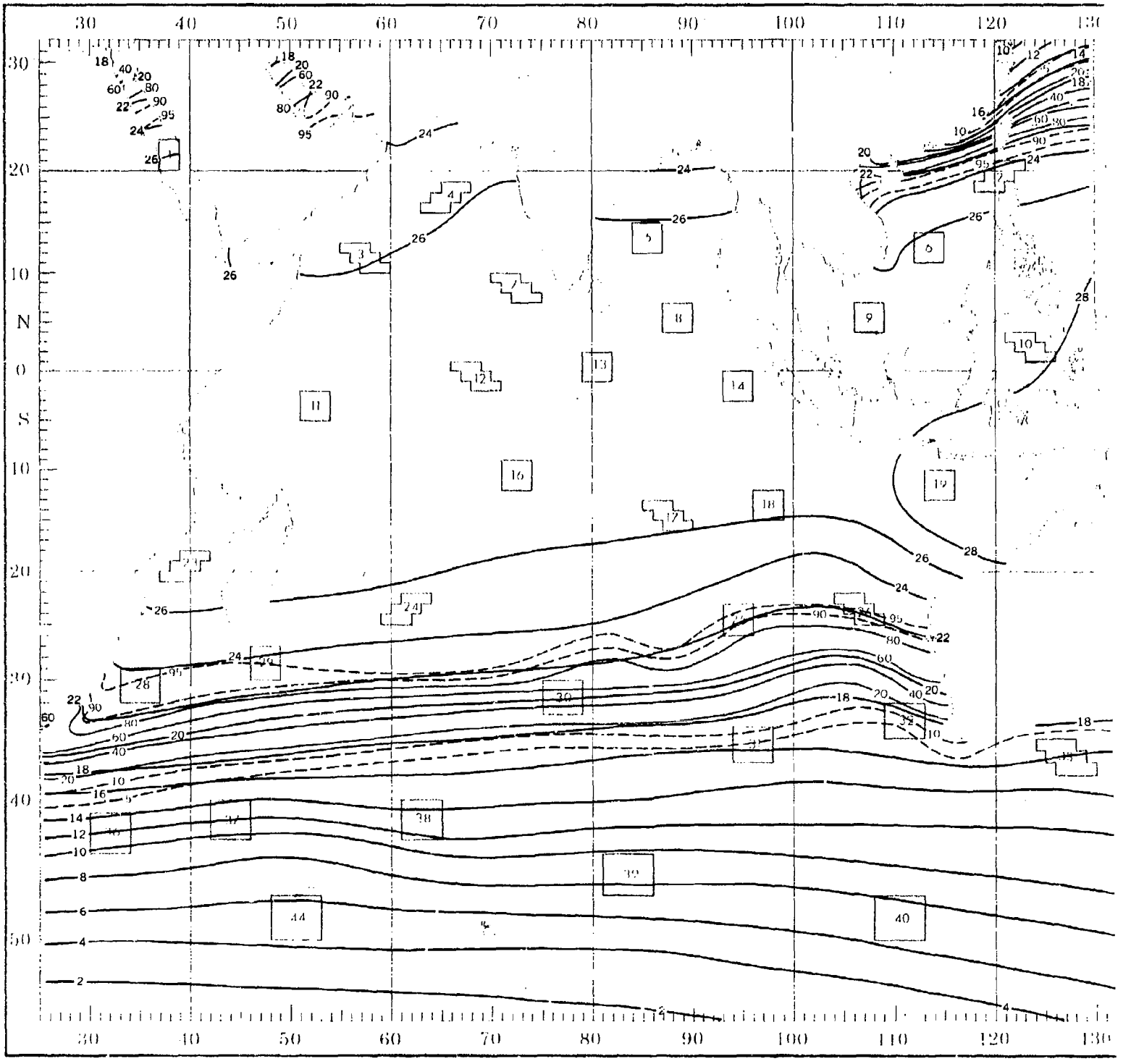
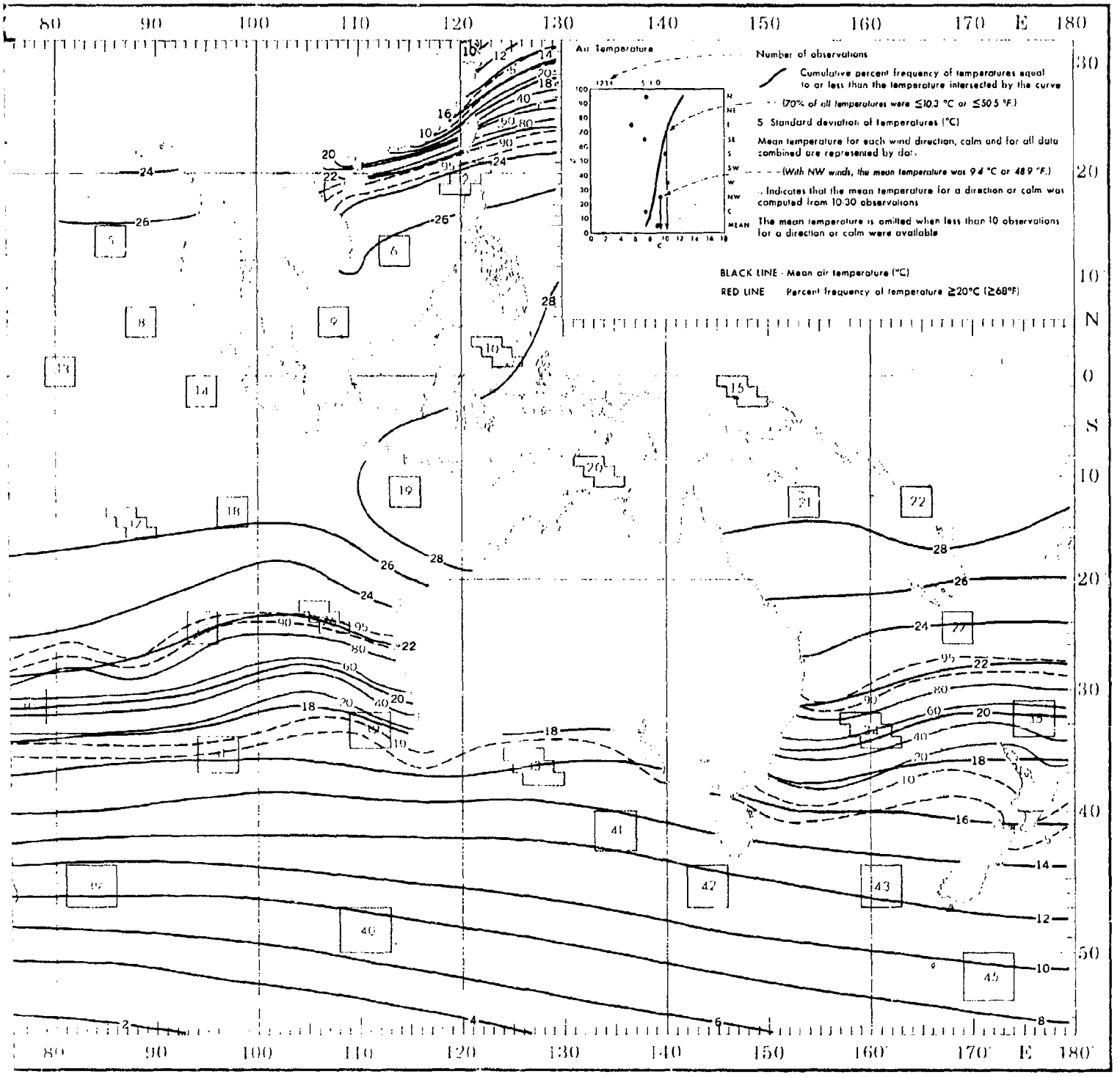
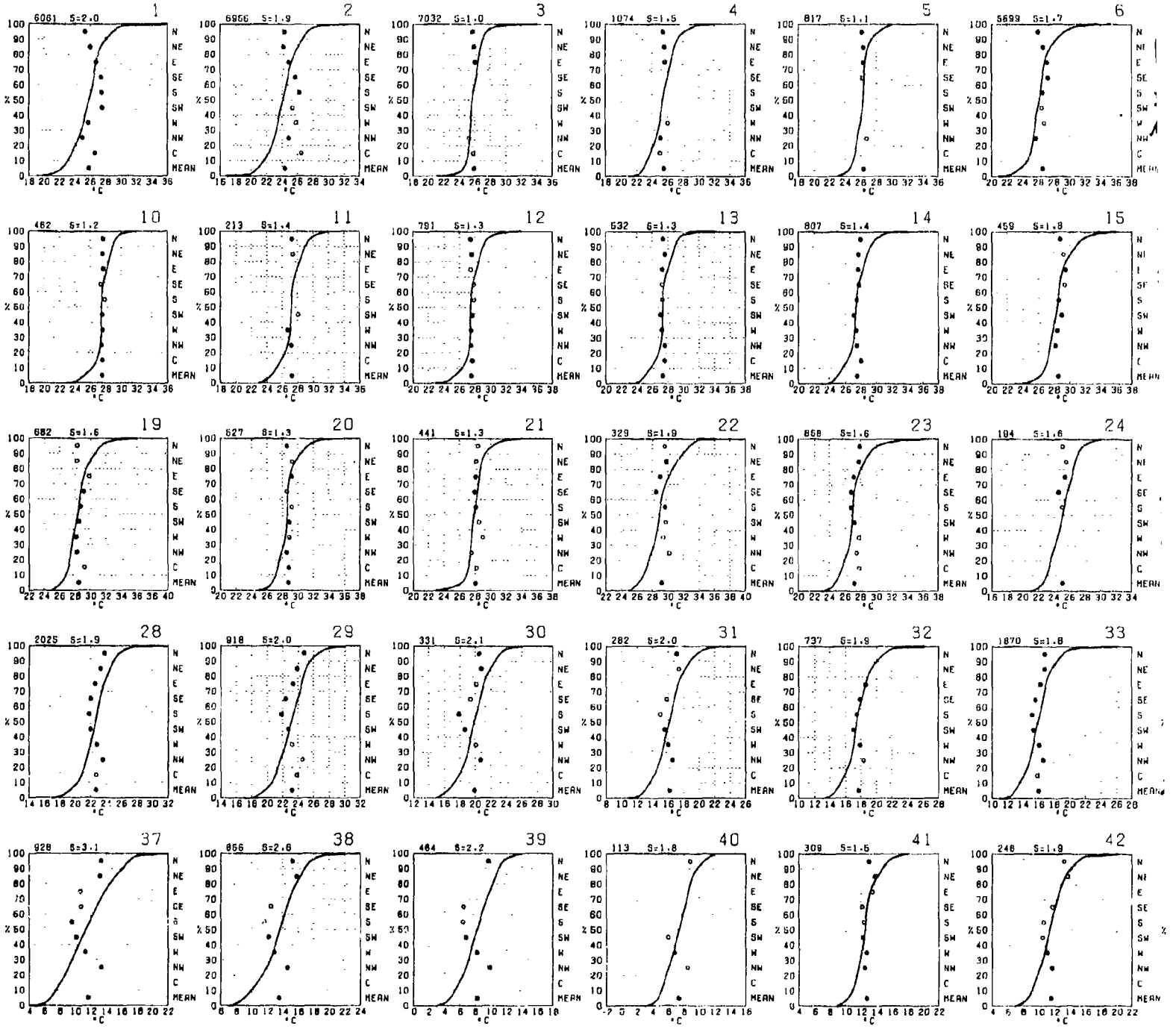
DECEMBER



SURFACE AIR TEMPERATURE

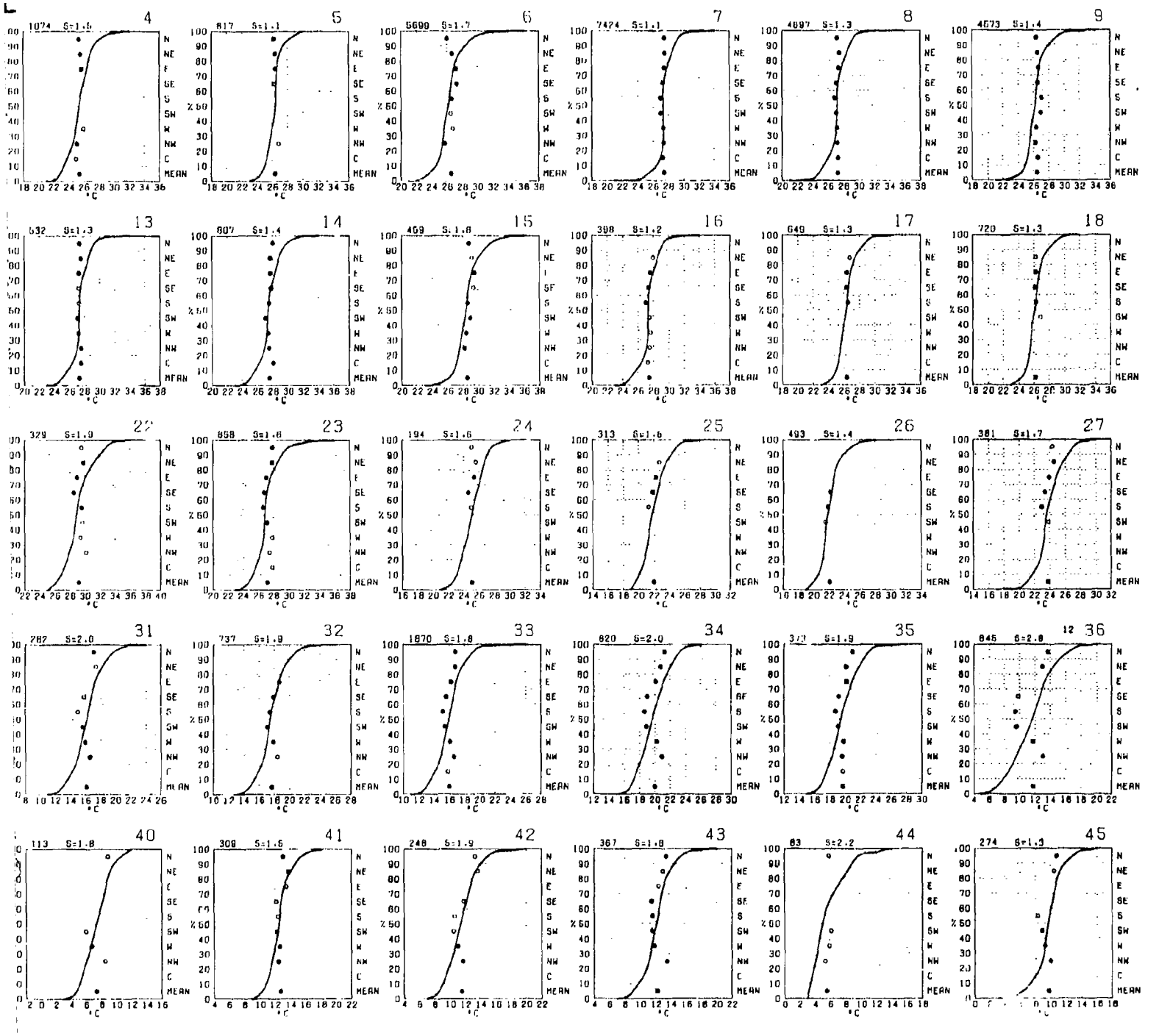


SURFACE AIR TEMPERATURE



Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

DECEMBER



ctive compilation of available data for specified areas without regard to suspected biases.
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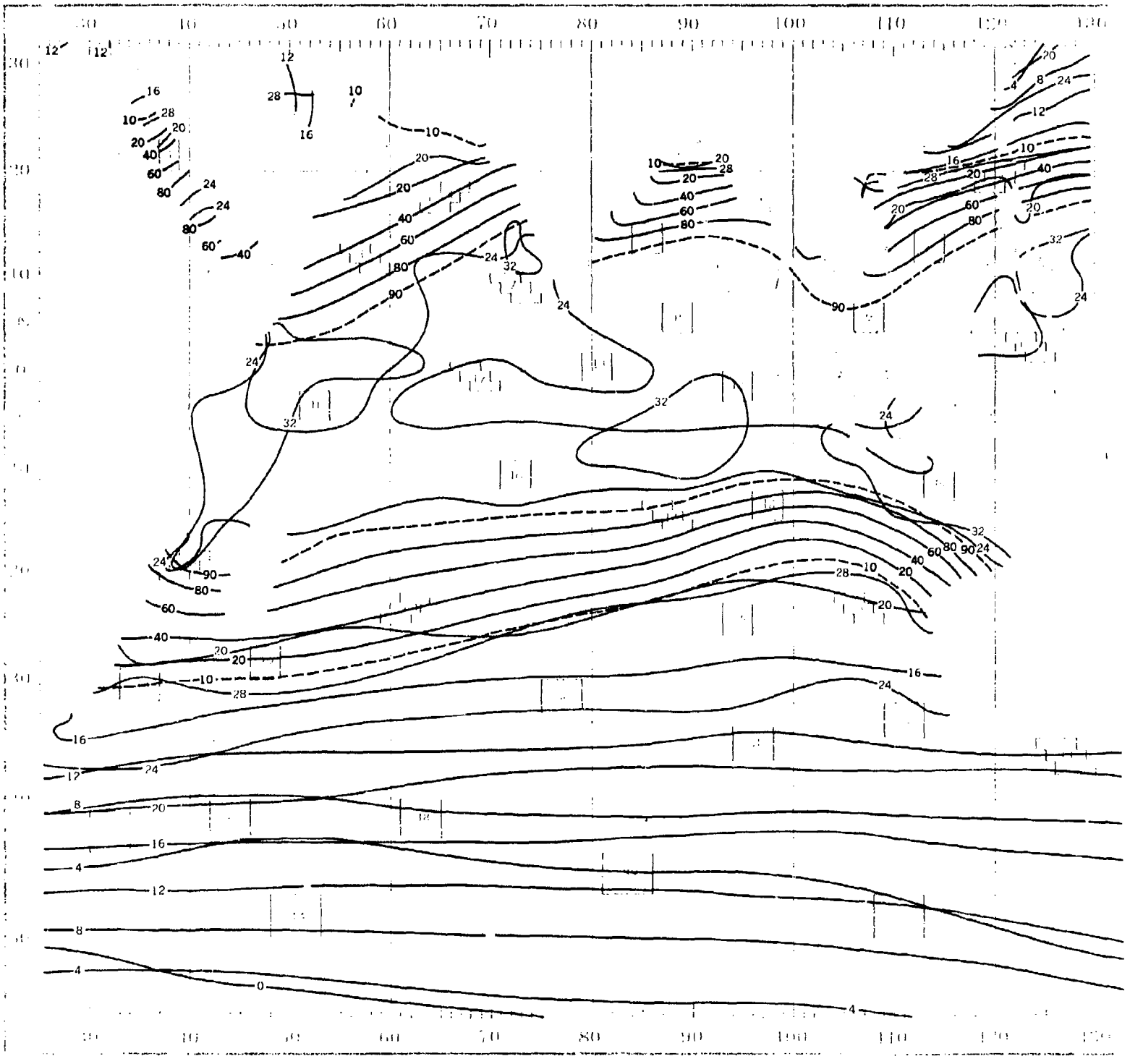
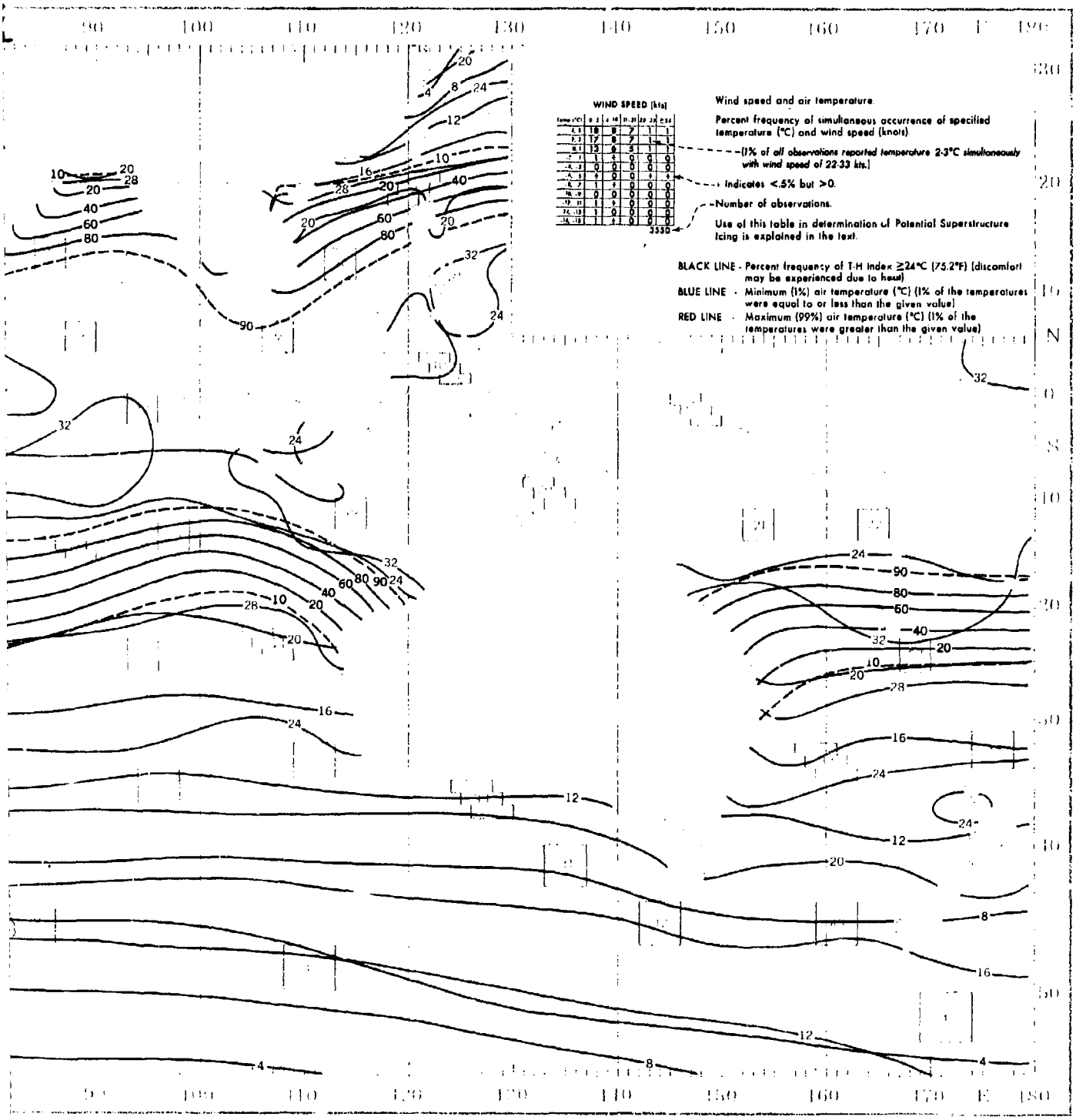
DECEMBER

TEMPERATURE E



TEMPERATURE EXTREMES AND T-H INDEX



WIND SPEED AND AIR TEMPERATURE

WIND SPEED (KTS) 1

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	0	0
32.33	+	+	+	0	0
30.31	1	1	+	+	0
28.29	4	8	4	+	0
26.27	10	20	10	1	+
24.26	3	12	11	1	+
22.23	1	4	6	1	+
20.21	+	+	1	+	+
18.19	0	+	+	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

6084

WIND SPEED (KTS) 2

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	+	+	0	0
30.31	+	+	+	+	+
28.29	+	1	2	1	+
26.27	1	4	12	8	1
24.25	+	4	17	17	3
22.23	+	1	7	12	3
20.21	+	+	1	3	1
18.19	0	+	+	+	+
16.17	0	0	+	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

6956

WIND SPEED (KTS) 3

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	+	+	+	+	0
28.29	+	3	4	+	+
26.27	1	21	37	3	+
24.25	+	12	17	2	+
22.23	+	+	+	+	+
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

7032

WIND SPEED (KTS) 4

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	1	+	0	0
28.29	1	5	3	+	0
26.27	2	22	16	1	0
24.25	2	23	10	1	0
22.23	+	4	3	+	0
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1076

WIND SPEED (KTS) 5

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	7	7	1	0
26.27	1	24	38	5	+
24.25	1	8	6	1	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

817

WIND SPEED (KTS) 6

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	+	+	0
32.33	+	+	1	+	0
30.31	+	1	3	+	0
28.29	+	3	13	3	+
26.27	+	7	30	14	1
24.25	+	2	10	8	1
22.23	0	+	1	+	+
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5699

WIND SPEED (KTS) 10

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	1	3	1	0	0
28.29	20	26	5	0	0
26.27	12	24	4	+	0
24.25	+	2	1	0	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

484

WIND SPEED (KTS) 11

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	2	3	1	0	0
28.29	4	22	8	0	0
26.27	6	36	10	0	0
24.25	0	4	2	0	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

216

WIND SPEED (KTS) 12

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	+	1	0	0	0
30.31	2	3	1	0	0
28.29	12	25	6	+	0
26.27	14	26	8	+	0
24.25	1	1	2	0	0
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

798

WIND SPEED (KTS) 13

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	2	2	1	1	0
28.29	9	27	6	+	0
26.27	12	24	10	1	0
24.25	1	4	1	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

534

WIND SPEED (KTS) 14

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	0	0	0
30.31	3	5	2	0	0
28.29	14	22	8	0	0
26.27	11	21	10	1	0
24.25	1	3	2	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

607

WIND SPEED (KTS) 15

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	+	0	0	0
32.33	3	3	+	0	0
30.31	6	6	1	0	0
28.29	18	31	7	+	0
26.27	8	11	4	1	+
24.25	+	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

463

WIND SPEED (KTS) 19

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	+	0	0	0
32.33	2	3	+	0	0
30.31	4	9	5	+	+
28.29	6	26	16	6	+
26.27	2	10	6	3	1
24.25	0	+	1	0	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

602

WIND SPEED (KTS) 20

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	0	+	0	0	0
32.33	1	3	1	0	0
30.31	7	12	2	0	0
28.29	17	37	8	+	0
26.27	2	6	2	+	0
24.25	+	+	+	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

529

WIND SPEED (KTS) 21

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	2	0	0	0
30.31	3	6	1	+	0
28.29	12	33	13	1	0
26.27	6	13	9	1	0
24.25	0	1	1	0	0
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

449

WIND SPEED (KTS) 22

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	1	1	0	0	0
32.33	3	7	1	0	0
30.31	8	12	3	0	0
28.29	12	26	11	1	0
26.27	2	10	3	0	+
24.25	0	+	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

329

WIND SPEED (KTS) 23

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.36	+	+	+	0	0
32.33	+	1	+	0	0
30.31	1	3	1	0	0
28.29	3	17	8	0	0
26.27	6	31	14	2	0
24.25	1	5	2	+	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

878

WIND SPEED (KTS) 24

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	2	4	2	0	0
26.27	3	19	15	1	0
24.25	2	20	16	7	1
22.23	1	5	5	2	3
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

195

WIND SPEED (KTS) 28

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	+	+	+	0	0
26.27	+	3	2	+	+
24.25	1	9	12	3	+
22.23	3	16	18	6	1
20.21	2	7	7	3	1
18.19	+	2	2	1	+
16.17	+	+	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

2043

WIND SPEED (KTS) 29

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	1	1	+	0
26.27	1	4	6	1	0
24.25	2	9	17	4	+
22.23	2	10	16	7	1
20.21	+	4	11	2	+
18.19	0	+	2	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

918

WIND SPEED (KTS) 30

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.27	+	0	0	0	0
26.26	+	2	1	0	0
22.23	4	10	7	0	+
20.21	4	17	11	1	0
18.19	3	18	8	+	0
16.17	1	6	3	+	0
14.15	0	1	+	1	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

331

WIND SPEED (KTS) 31

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	1	0	0	0
20.21	0	2	1	1	0
18.19	1	6	9	1	0
16.17	2	21	18	4	0
14.15	1	7	12	3	0
12.13	1	2	4	2	0
10.11	0	0	+	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

262

WIND SPEED (KTS) 32

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	+	0	1	0	0
22.23	0	1	1	1	0
20.21	1	6	5	1	0
18.19	1	13	17	4	0
16.17	1	12	22	6	1
14.15	0	2	3	1	1
12.13	0	+	+	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

740

WIND SPEED (KTS) 33

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.26	0	+	0	0	0
22.23	0	+	+	0	0
20.21	+	1	1	+	+
18.19	1	7	7	1	+
16.17	3	17	19	4	1
14.15	2	11	12	4	1
12.13	+	2	3	1	+
10.11	0	+	+	0	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

1874

WIND SPEED (KTS) 37

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	+	+	+	0
18.19	0	1	1	1	+
16.17	+	2	4	3	1
14.15	+	4	6	5	1
12.13	+	5	9	5	2
10.11	+	8	8	6	2
8.9	+	4	9	3	3
6.7	+	2	3	2	1
4.5	0	0	+	+	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0

928

WIND SPEED (KTS) 38

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	+	0	0	0	0
20.21	+	+	+	+	0
18.19	+	1	2	2	+
16.17	+	3	7	8	1
14.15	1	6	12	8	3
12.13	1	4	10	8	4
10.11	+	1	6	4	4
8.9	0	+	2	3	1
6.7	0	0	+	+	+
4.5	0	0	0	0	0
2.3	0	0	0	0	0

856

WIND SPEED (KTS) 39

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	+	0	0	+	0
12.13	+	+	2	4	1
10.11	1	2	9	11	1
8.9	1	4	10	12	3
6.7	+	5	8	8	7
4.5	0	2	3	3	1
2.3	0	0	+	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0

484

WIND SPEED (KTS) 40

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
12.13	0	0	2	0	0
10.11	1	1	4	3	1
8.9	2	10	11	10	1
6.7	1	6	16	17	1
4.5	0	1	5	5	2
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

113

WIND SPEED (KTS) 41

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.15	0	+	0	0	0
14.13	1	1	4	+	0
12.11	2	6	13	3	1
10.9	1	14	21	10	5
8.7	1	4	13	10	6
6.5	0	1	6	6	1
4.3	0	0	0	0	0
2.1	0	0	0	0	0
0.-1	0	0	0	0	0
-2.-3	0	0	0	0	0
-4.-5	0	0	0	0	0
-6.-7	0	0	0	0	0

309

WIND SPEED (KTS) 42

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
16.15	0	1	0	0	0
14.13	+	1	0	0	0
12.11	+	6	8	1	0
10.9	2	8	15	8	0
8.7	1	4	13	10	6
6.5	0	1	6	6	1
4.3	0	0	0	0	0
2.1	0	0	0	0	0
0.-1	0	0	0	0	0
-2.-3	0	0	0	0	0

248

Graphs represent the objective compilation of available data for specified areas without reg
The isopleth analyses (opposite page) are based on all available data subjectively adjusted

ERATURE

DECEMBER

4

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	0	+	0	0
30.31	0	1	+	0	0
28.29	1	5	3	+	0
26.27	2	22	16	1	0
24.25	2	23	15	1	0
22.23	+	4	3	+	0
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

1076

5

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	+	+	0	0
28.29	+	7	7	1	0
26.27	1	24	38	6	+
24.25	1	8	6	1	+
22.23	0	+	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

817

6

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	+	+	0
32.33	+	+	1	+	0
30.31	+	1	3	+	0
28.29	+	3	13	3	+
26.27	+	7	30	14	1
24.25	+	2	10	8	1
22.23	0	+	1	+	+
20.21	0	0	+	+	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

5698

7

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	+	+	0	0
30.31	1	2	1	0	0
28.29	11	28	4	+	0
26.27	16	30	4	+	0
24.25	+	2	+	+	0
22.23	+	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

7453

8

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	+	0	0	0
32.33	+	+	+	0	0
30.31	1	2	1	+	0
28.29	6	20	13	1	0
26.27	9	27	13	1	+
24.25	1	3	2	+	0
22.23	+	+	+	0	0
20.21	0	+	+	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4714

9

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	0	0	+	0	0
32.33	0	+	+	+	0
30.31	+	1	1	+	0
28.29	1	7	9	1	0
26.27	3	21	31	5	+
24.25	1	6	9	2	+
22.23	+	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

4576

13

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	+	+	0	0
30.31	2	2	1	1	0
28.29	9	27	6	+	0
26.27	12	24	10	1	0
24.25	1	4	1	+	0
22.23	0	+	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

534

14

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	1	+	0	0	0
30.31	3	5	2	0	0
28.29	14	22	6	0	0
26.27	11	21	10	1	0
24.25	1	3	2	1	+
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

807

15

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	+	0	0	0
32.33	3	3	+	0	0
30.31	8	6	1	0	0
28.29	15	31	7	+	0
26.27	6	11	4	1	+
24.25	+	1	1	0	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

483

16

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
32.33	0	1	+	0	0
30.31	1	3	1	0	0
28.29	5	24	13	0	0
26.27	6	26	15	1	0
24.25	1	2	1	1	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0

403

17

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	0	1	1	0	0
28.29	0	5	12	2	+
26.27	+	14	39	6	+
24.25	+	5	12	2	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

849

18

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	1	1	0	0
28.29	1	4	10	1	0
26.27	2	16	36	5	0
24.25	1	7	12	3	+
22.23	0	+	+	+	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

720

22

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	1	1	0	0	0
32.33	3	7	1	0	0
30.31	6	12	3	0	0
28.29	12	28	11	1	0
26.27	2	10	3	0	+
24.25	0	+	0	+	0
22.23	0	0	0	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

329

23

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
34.35	+	+	+	0	0
32.33	+	1	+	0	0
30.31	1	3	1	0	0
28.29	3	17	8	0	0
26.27	6	31	14	2	0
24.25	1	6	2	+	+
22.23	0	0	+	0	0
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0

878

24

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	2	4	2	0	0
26.27	3	13	16	1	0
24.25	2	20	16	7	1
22.23	1	5	5	2	3
20.21	0	0	0	0	0
18.19	0	0	0	0	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

195

25

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	1	1	+	0
24.25	1	6	8	4	0
22.23	2	8	20	9	+
20.21	1	5	23	4	0
18.19	0	3	4	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

313

26

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
28.29	0	+	0	0	0
26.27	0	1	1	+	0
24.25	1	4	7	+	0
22.23	1	14	27	8	0
20.21	+	8	20	4	0
18.19	0	1	1	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0

493

27

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
30.31	+	0	0	0	0
28.29	+	1	1	0	0
26.27	2	10	7	0	0
24.25	3	18	15	1	0
22.23	3	17	16	2	+
20.21	0	2	3	+	0
18.19	0	+	0	1	0
16.17	0	0	0	0	0
14.15	0	0	0	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0

381

31

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
22.23	0	1	0	0	0
20.21	0	2	1	1	0
18.19	1	6	9	1	0
16.17	2	21	18	4	0
14.15	1	7	12	3	0
12.13	1	2	4	2	0
10.11	0	0	+	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0

282

32

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	+	0	1	0	0
22.23	0	1	1	1	0
20.21	1	6	6	1	0
18.19	1	13	17	4	0
16.17	1	12	22	6	1
14.15	0	2	3	1	1
12.13	0	+	+	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

740

33

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
24.25	0	+	0	0	0
22.23	0	+	+	0	0
20.21	+	1	1	+	+
18.19	1	7	7	1	+
16.17	3	17	19	4	1
14.15	2	11	12	4	1
12.13	+	2	3	1	+
10.11	0	+	+	0	+
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0

1874

34

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	0	0	+	0	0
24.25	+	1	1	1	0
22.23	1	6	10	3	+
20.21	2	12	14	3	1
18.19	2	14	14	2	1
16.17	+	6	3	2	0
14.15	0	0	+	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

621

35

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
26.27	+	1	0	0	0
24.25	0	1	1	0	0
22.23	3	8	3	0	0
20.21	3	17	14	2	+
18.19	3	16	13	3	0
16.17	2	4	4	2	+
14.15	0	0	+	0	0
12.13	0	0	0	0	0
10.11	0	0	0	0	0
8.9	0	0	0	0	0
6.7	0	0	0	0	0

373

36

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
20.21	0	0	+	+	0
18.19	0	1	+	+	+
16.17	0	2	3	1	+
14.15	1	4	8	4	1
12.13	1	7	12	7	2
10.11	1	4	9	8	2
8.9	1	2	5	6	2
6.7	0	1	2	2	1
4.5	0	0	+	+	+
2.3	0	0	0	0	0
0.1	0	0	0	0	0

546

40

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	2	0	0
16.17	1	1	4	3	1
14.15	2	10	11	10	1
12.13	1	8	18	17	1
10.11	0	1	5	5	2
8.9	0	0	0	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

113

41

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	+	0	0	0
16.17	1	1	4	+	0
14.15	2	6	13	3	1
12.13	1	14	21	10	5
10.11	1	4	8	5	2
8.9	0	0	1	0	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	+	0	0
-2.-1	0	0	0	0	0

309

42

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	1	0	0	0
16.17	+	1	0	0	0
14.15	+	6	8	1	0
12.13	2	8	15	8	0
10.11	1	4	13	10	6
8.9	0	1	6	6	1
6.7	0	0	0	0	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

248

43

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	1	+	0	0
16.17	0	1	3	+	0
14.15	1	4	9	4	+
12.13	1	16	21	8	2
10.11	+	6	7	5	4
8.9	1	0	1	3	1
6.7	0	0	0	0	1
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0

387

44

WIND SPEED (KTS)

TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
18.19	0	0	0	2	1
16.17	0	0	0	2	0
14.15	0	1	4	11	0
12.13	0	4	10	5	1
10.11	0	7	18	14	5
8.9	0	1	8	7	0
6.7	0	0	0	0	0
4.5	0	0	0	0	0
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

83

45

WIND SPEED (KTS)

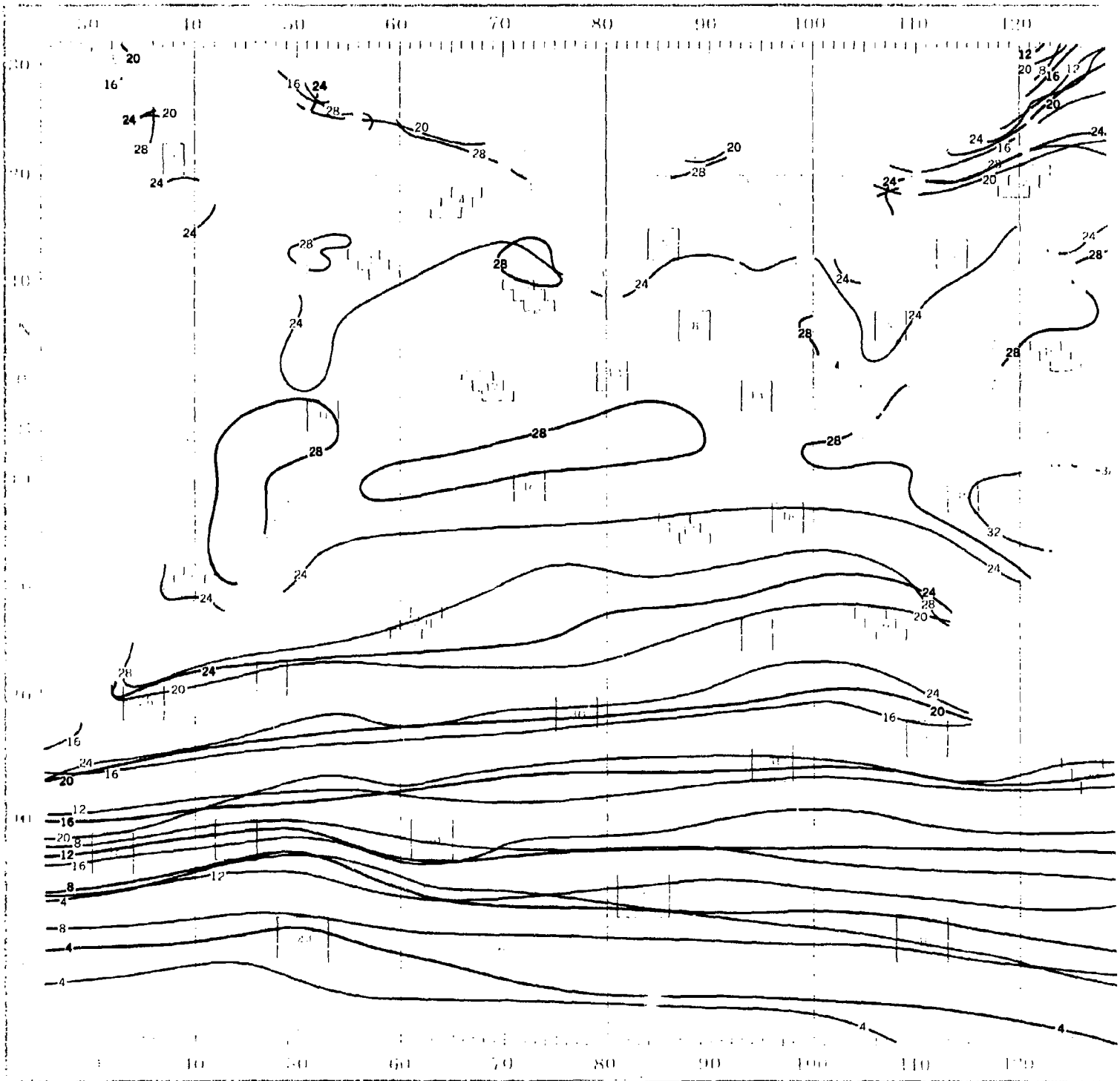
TEMP (°C)	0-3	4-10	11-21	22-33	≥ 34
14.15	0	0	2	1	0
12.13	1	5	4	3	0
10.11	1	8	23	9	1
8.9	+	4	14	12	1
6.7	0	1	4	3	2
4.5	0	0	0	+	1
2.3	0	0	0	0	0
0.1	0	0	0	0	0
-2.-1	0	0	0	0	0
-4.-3	0	0	0	0	0
-6.-5	0	0	0	0	0
-8.-7	0	0	0	0	0

274

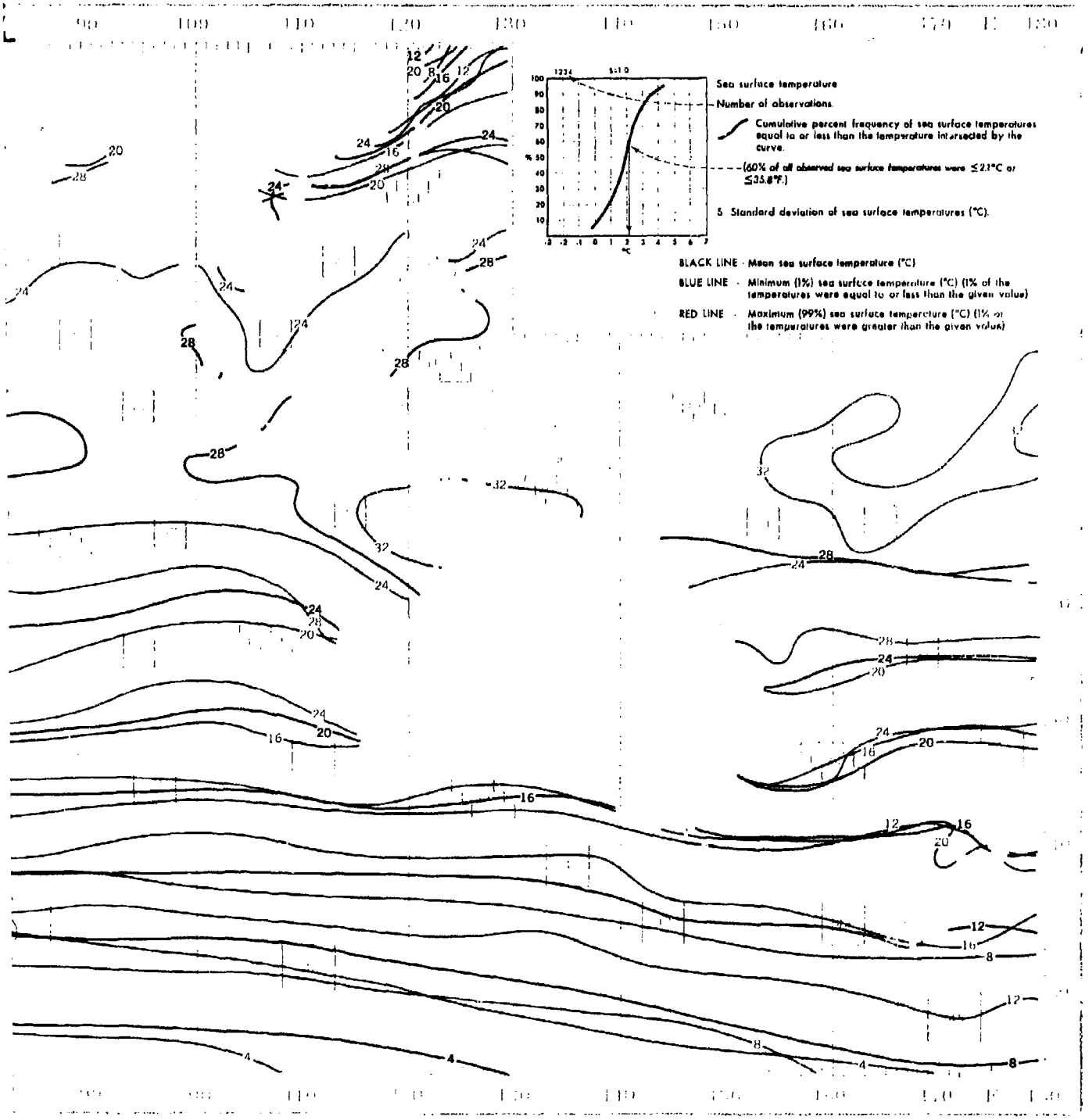
tive compilation of available data for specified areas without regard to suspected biases.

posite page) are based on all available data subjectively adjusted where bias was evident.

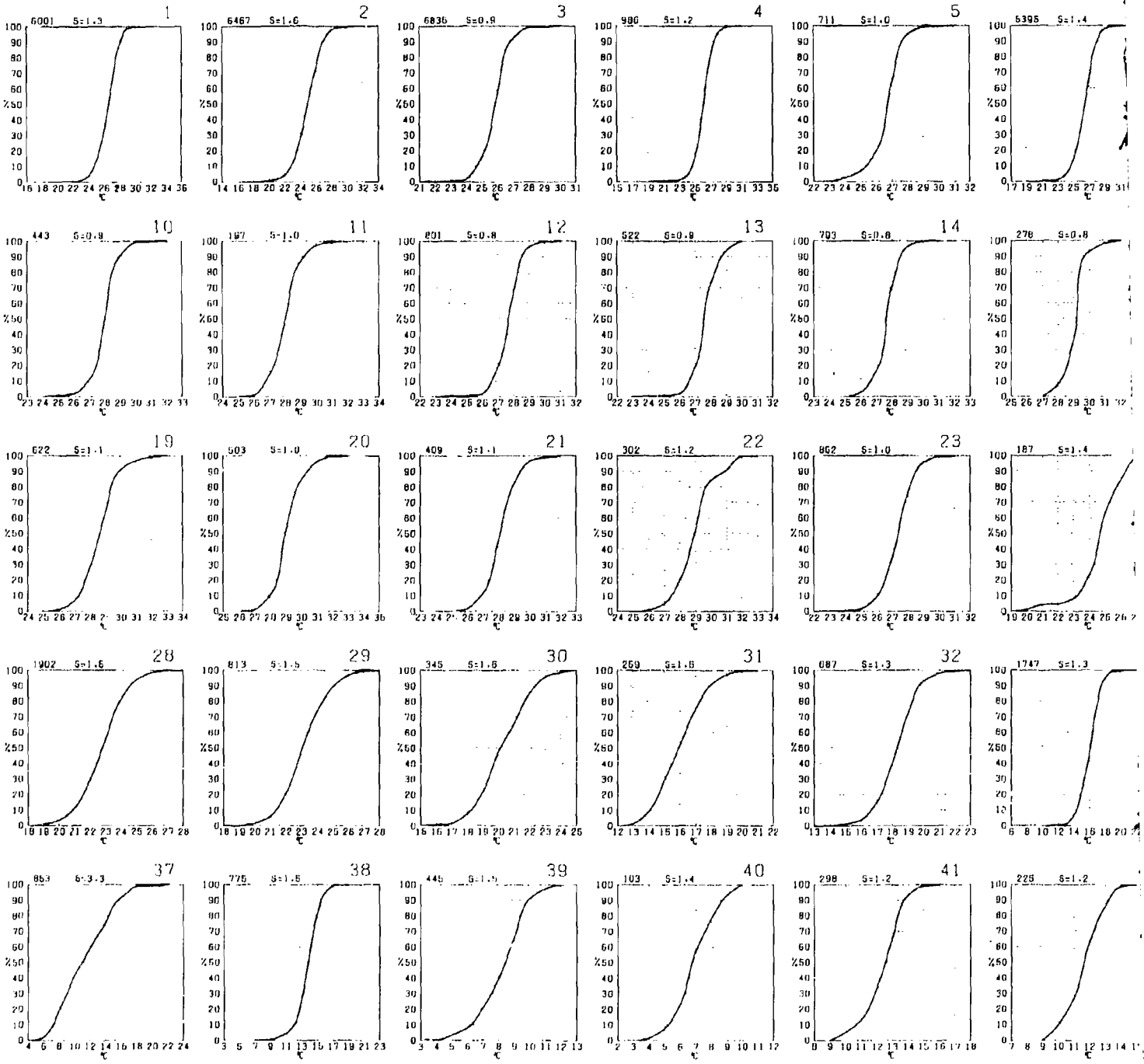
DECEMBER



SEA SURFACE TEMPERATURE



SEA SURFACE TEMPERATURE



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The isopleth analyses (opposite page) are based on all available data subjectively adj

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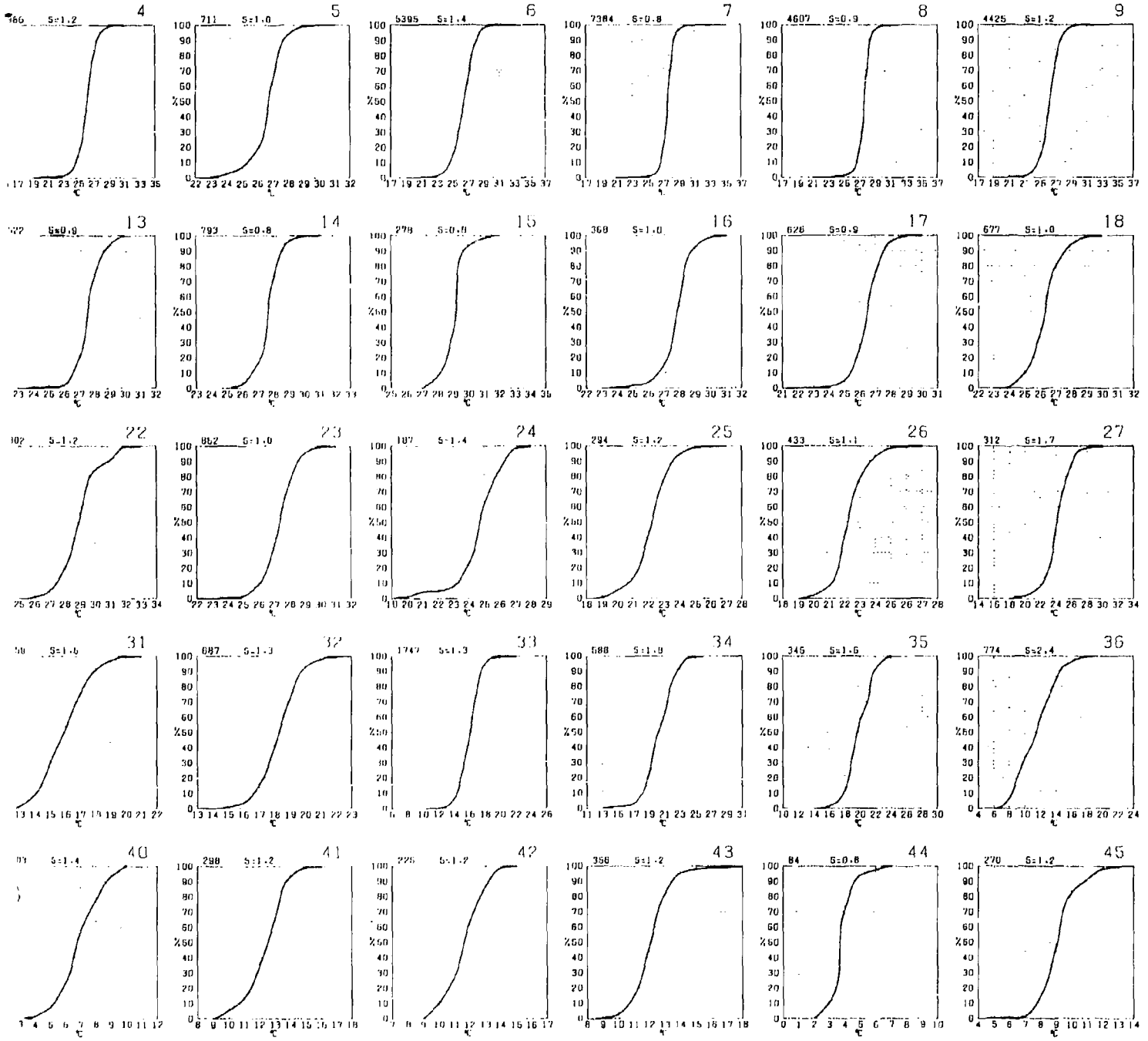

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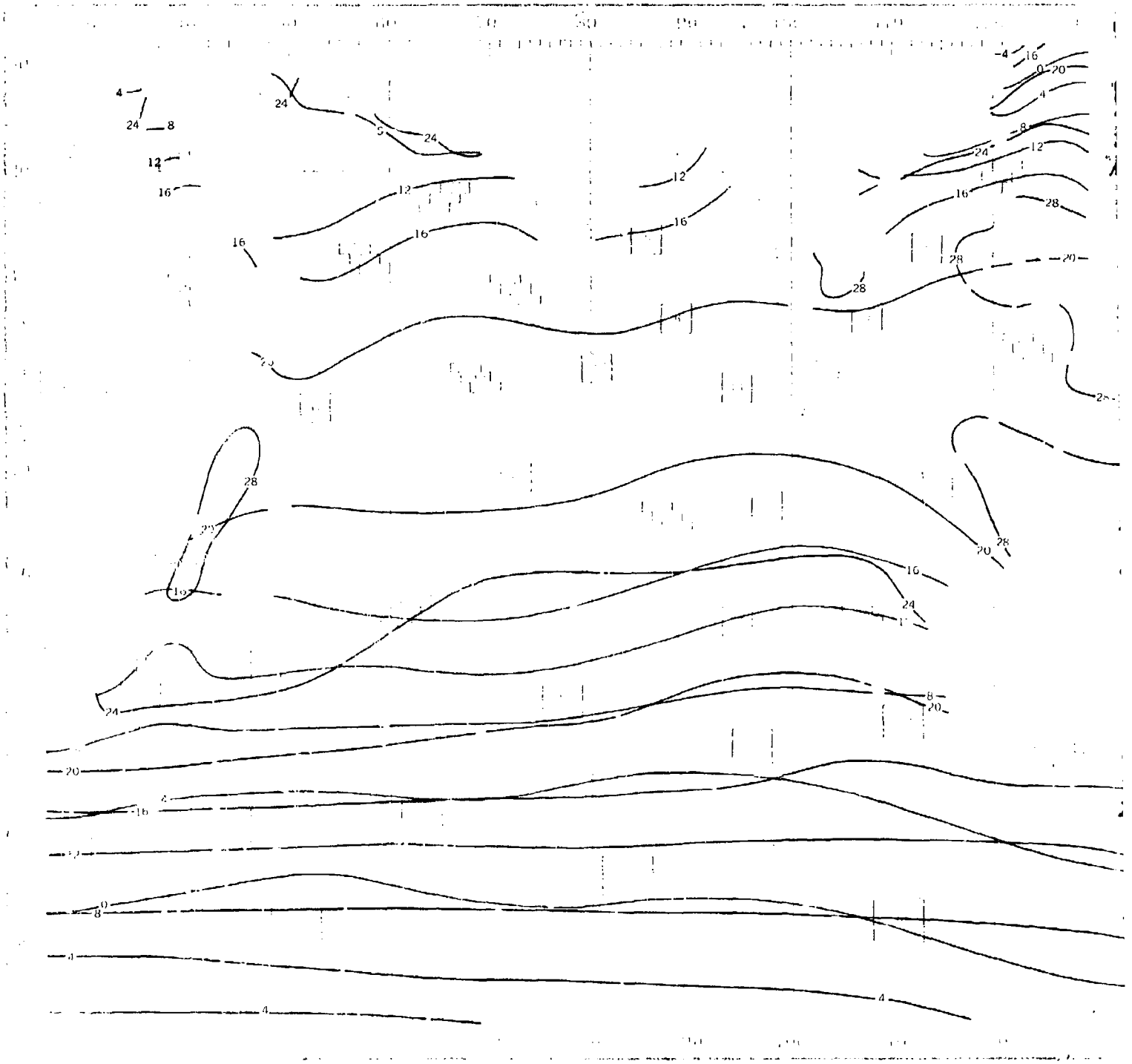
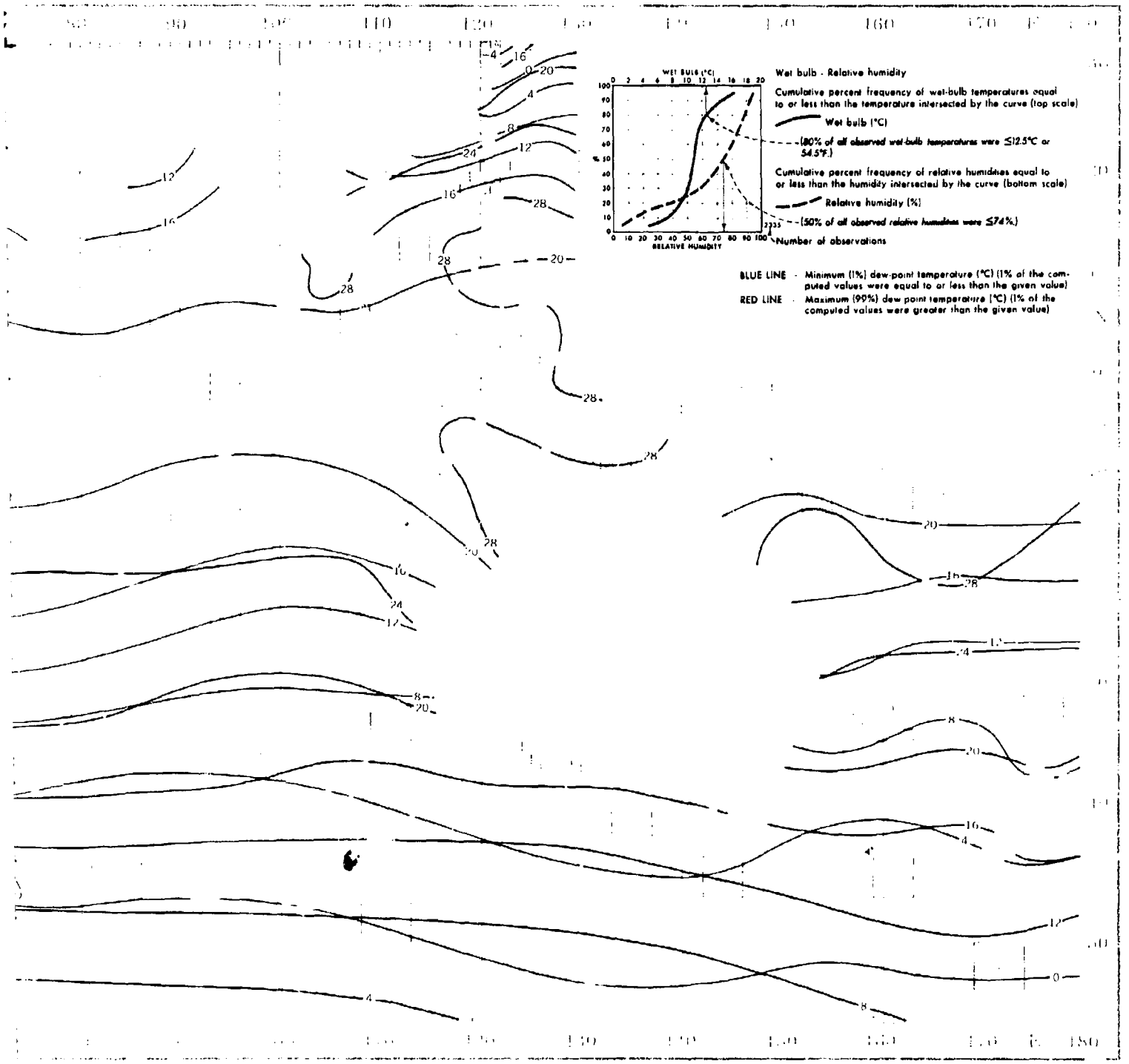
te page) are based on all available data subjectively adjusted where bias was evident.

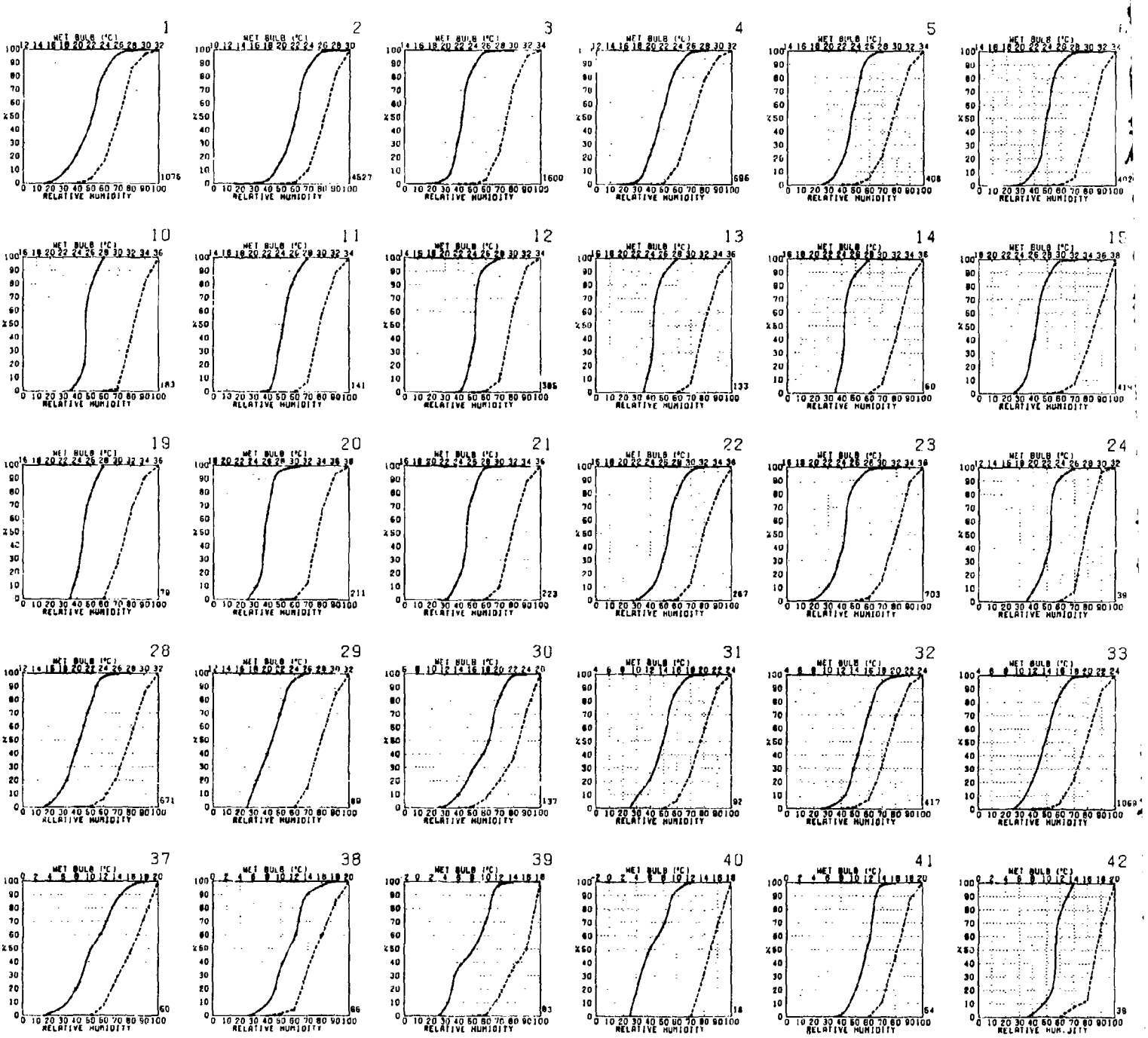
DECEMBER



HUMIDITY


WET BULB (°C)
RELATIVE HUMIDITY
Wet bulb - Relative humidity
Cumulative percent frequency of wet-bulb temperatures equal to or less than the temperature intersected by the curve (top scale)
Wet bulb (°C)
(80% of all observed wet-bulb temperatures were ≤12.5°C or 54.5°F.)
Cumulative percent frequency of relative humidities equal to or less than the humidity intersected by the curve (bottom scale)
Relative humidity (%)
(50% of all observed relative humidities were ≤74%.)
Number of observations
BLUE LINE - Minimum (1%) dew-point temperature (°C) (1% of the computed values were equal to or less than the given value)
RED LINE - Maximum (99%) dew point temperature (°C) (1% of the computed values were greater than the given value)

WET BULB AND RELATIVE HUMIDITY



Graphs represent the objective compilation of available data for specified areas without reg
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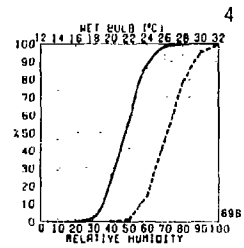
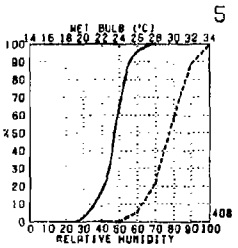
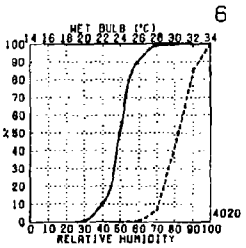
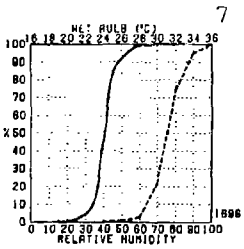
HUMIDITY

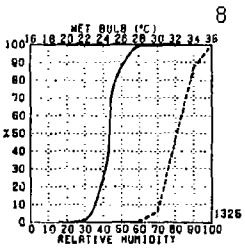
DECEMBER

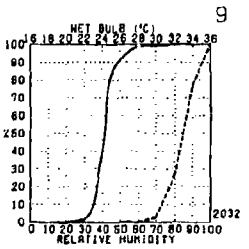


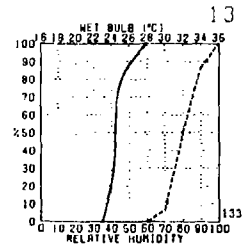


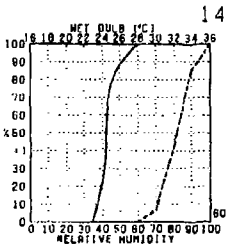


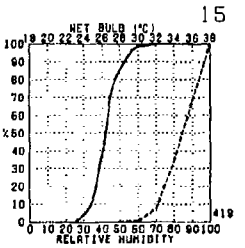


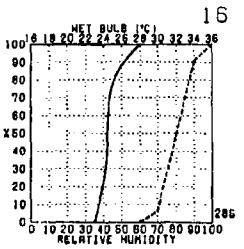


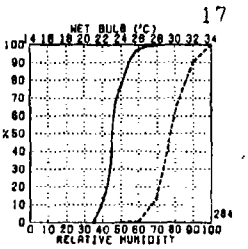


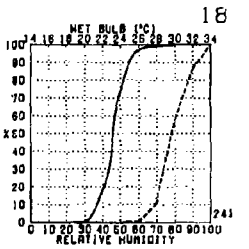


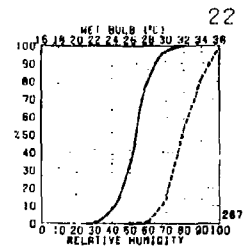


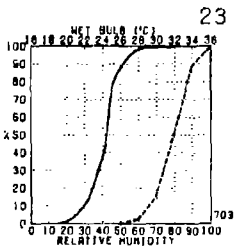


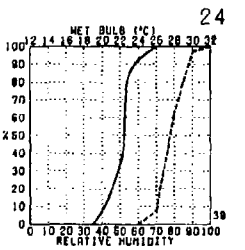


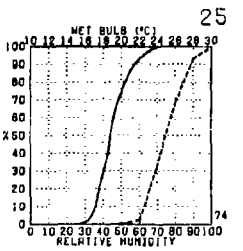


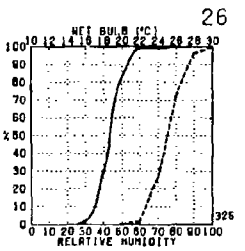


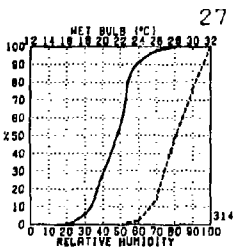


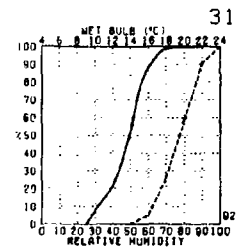


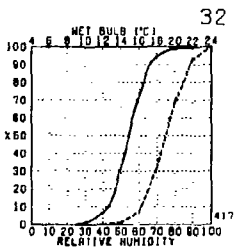


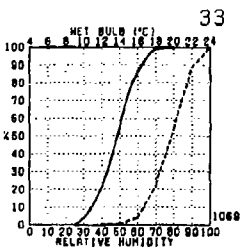


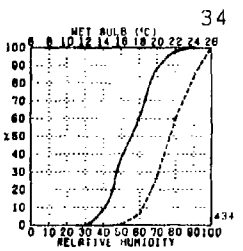


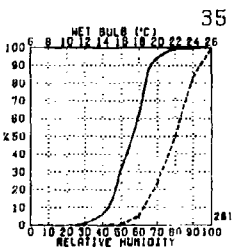


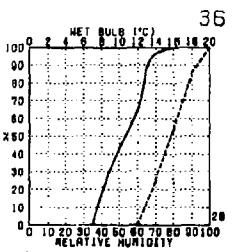


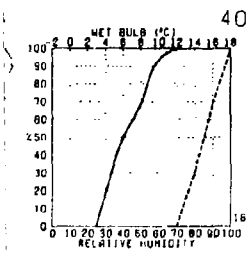


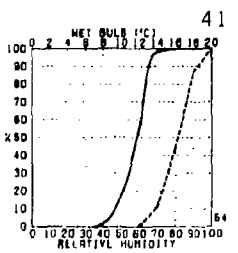


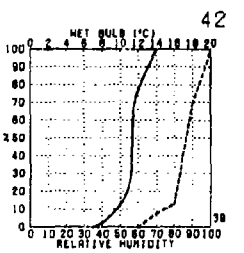


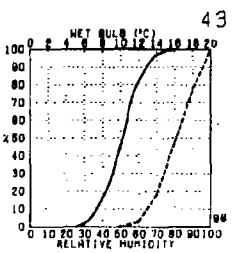






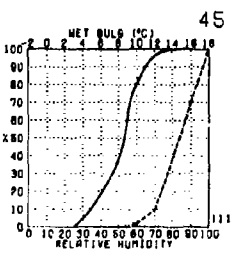






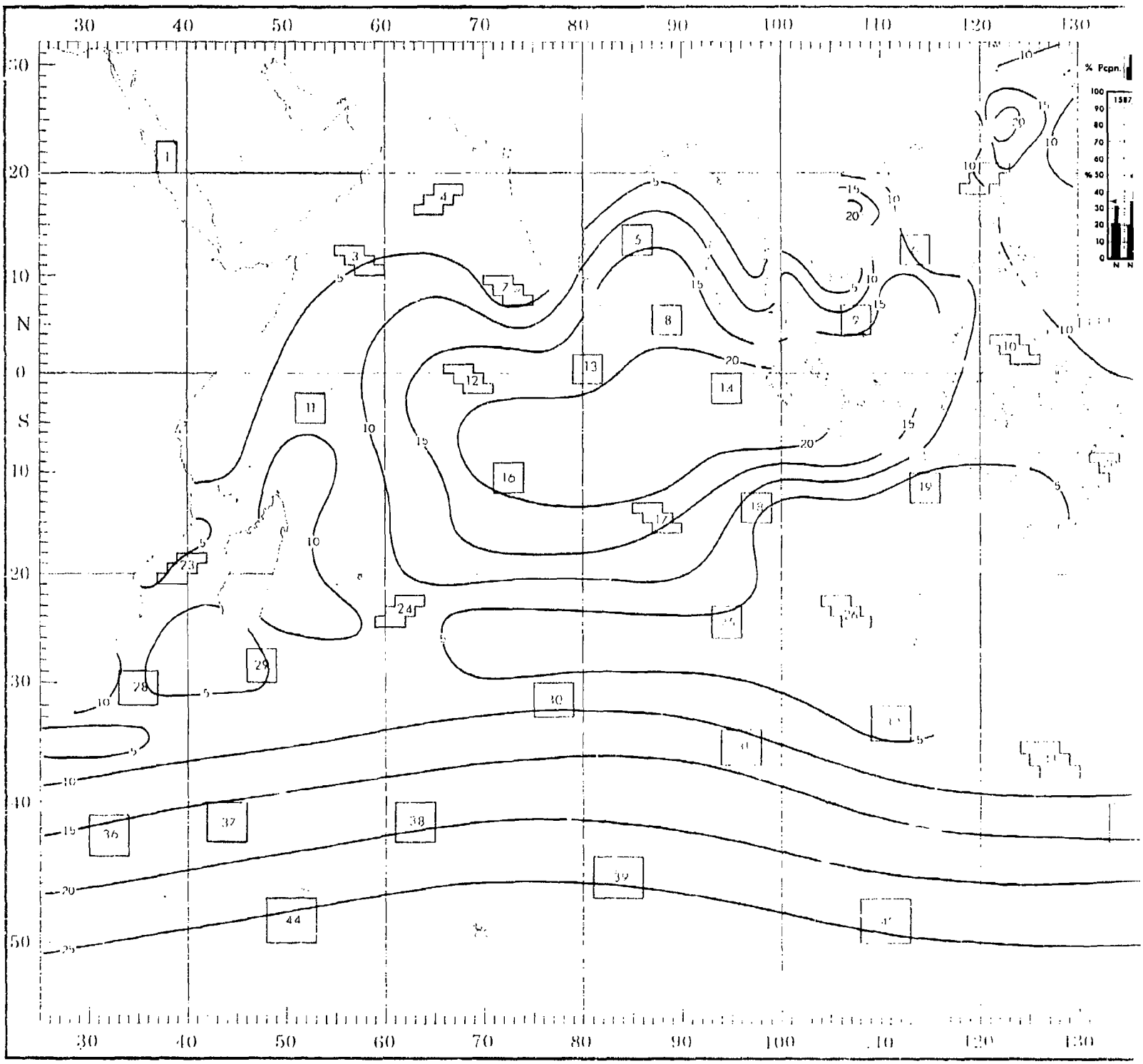
44

INSUFFICIENT DATA



bjective compilation of available data for specified areas without regard to suspected biases.
pposite page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER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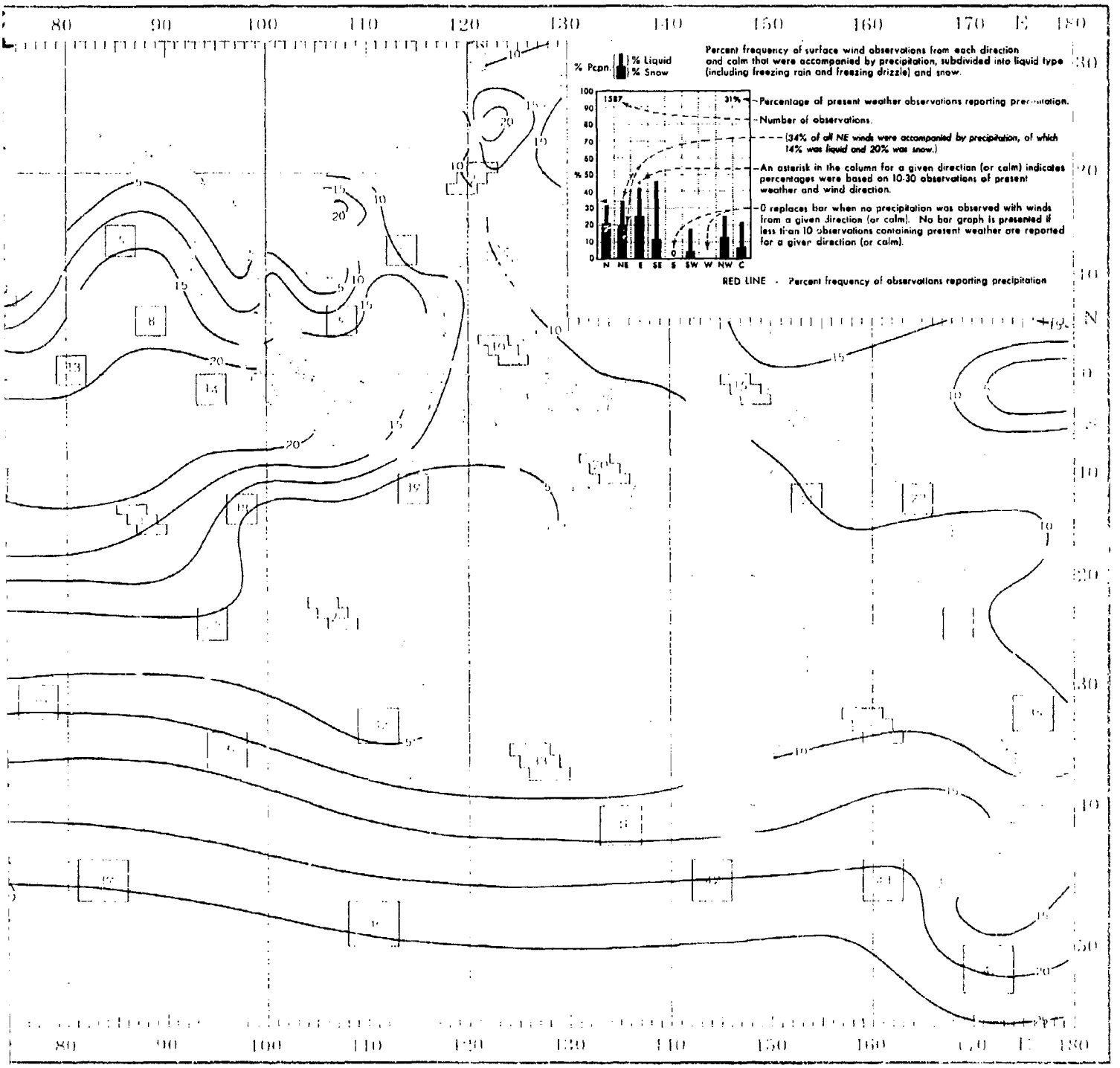
PRECIPITATION



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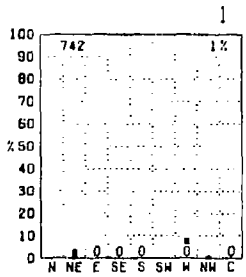

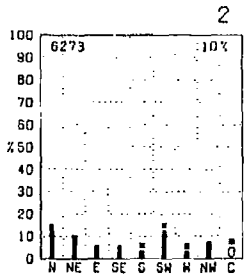

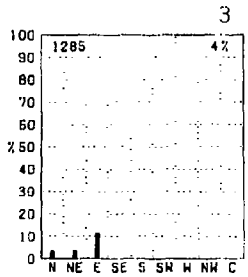

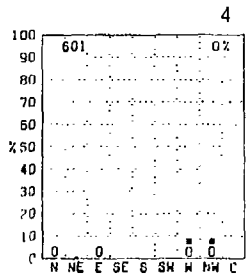

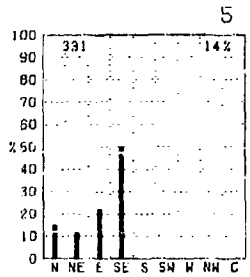

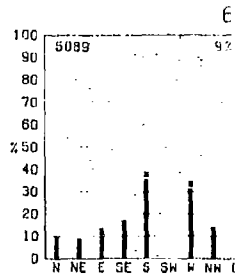

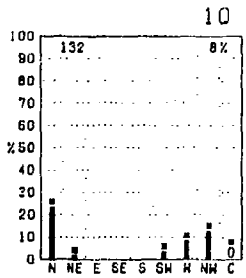

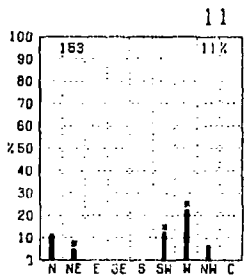

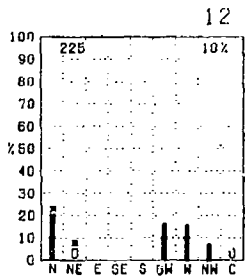

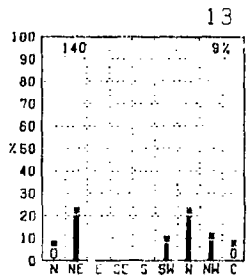

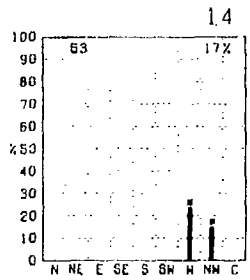

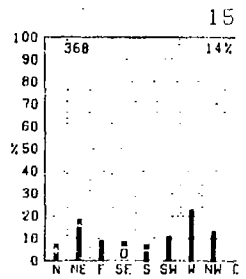

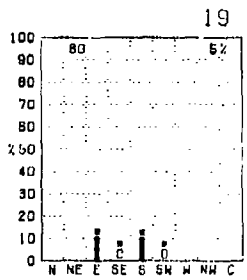

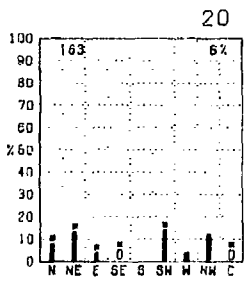

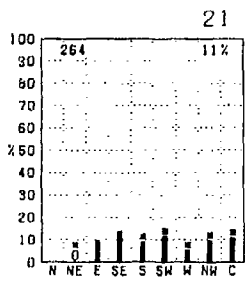

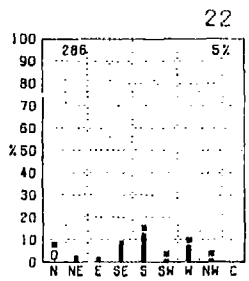

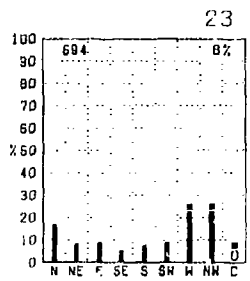

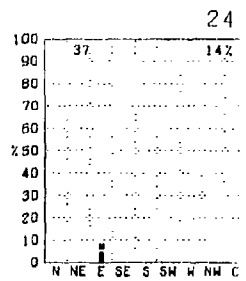

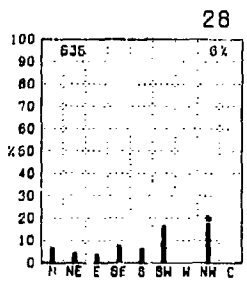

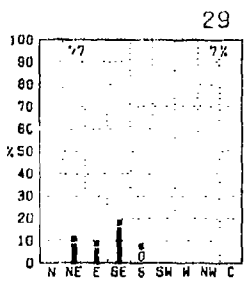

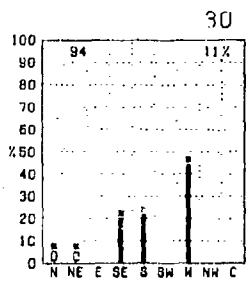

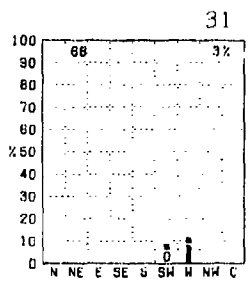

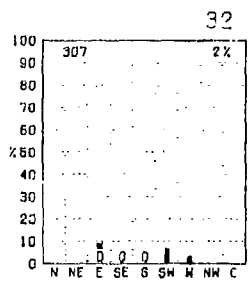

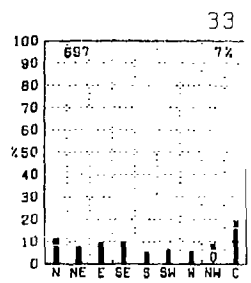

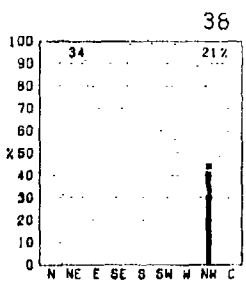

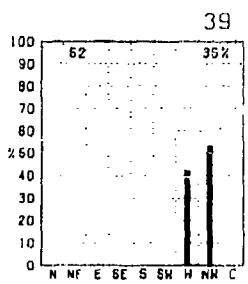

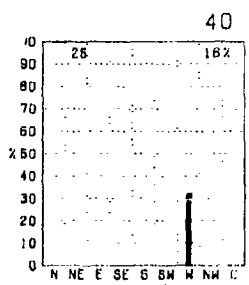

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INSUFFICIENT DATA

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INSUFFICIENT DATA

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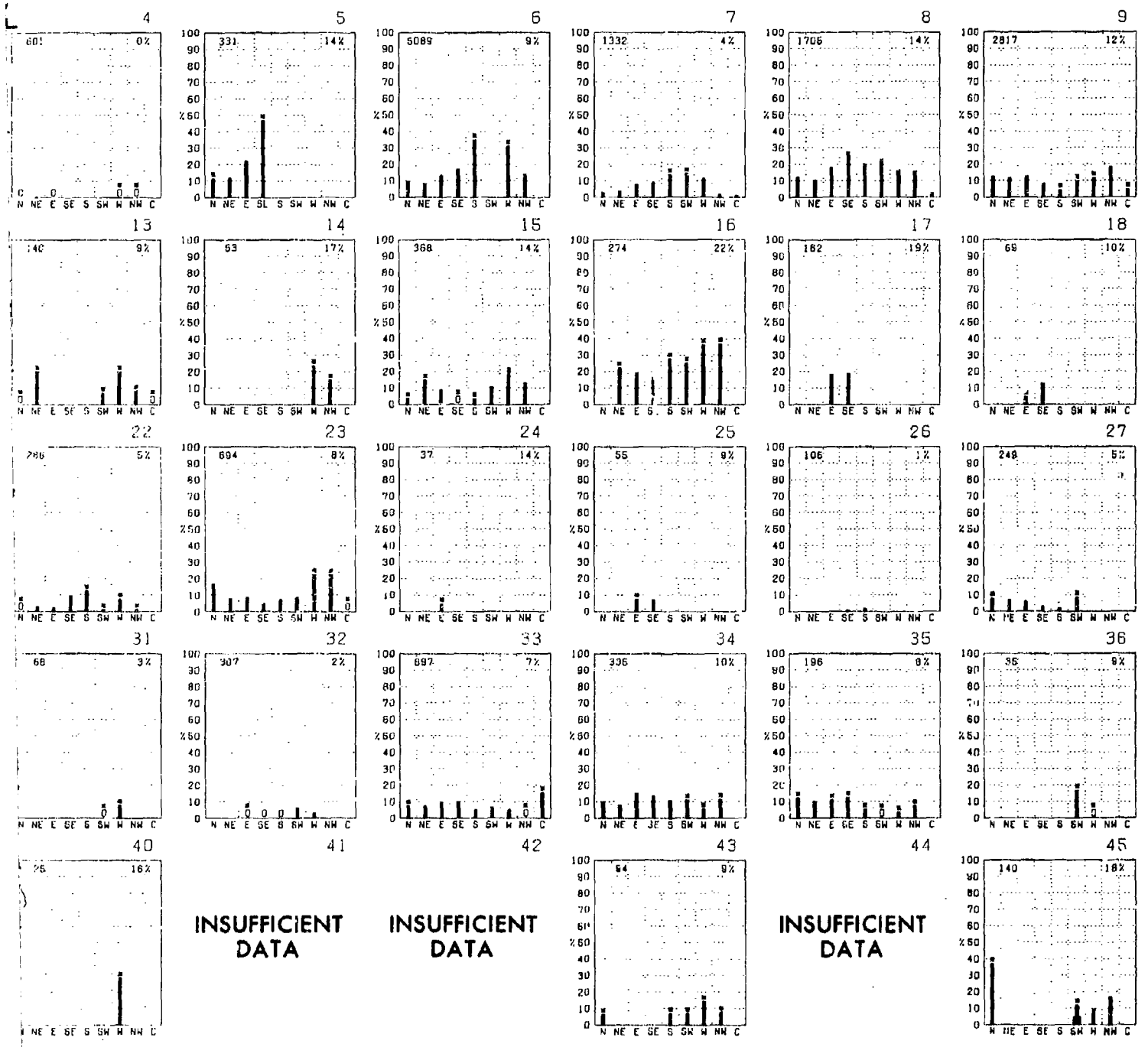
INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

DECEMBER



INSUFFICIENT DATA

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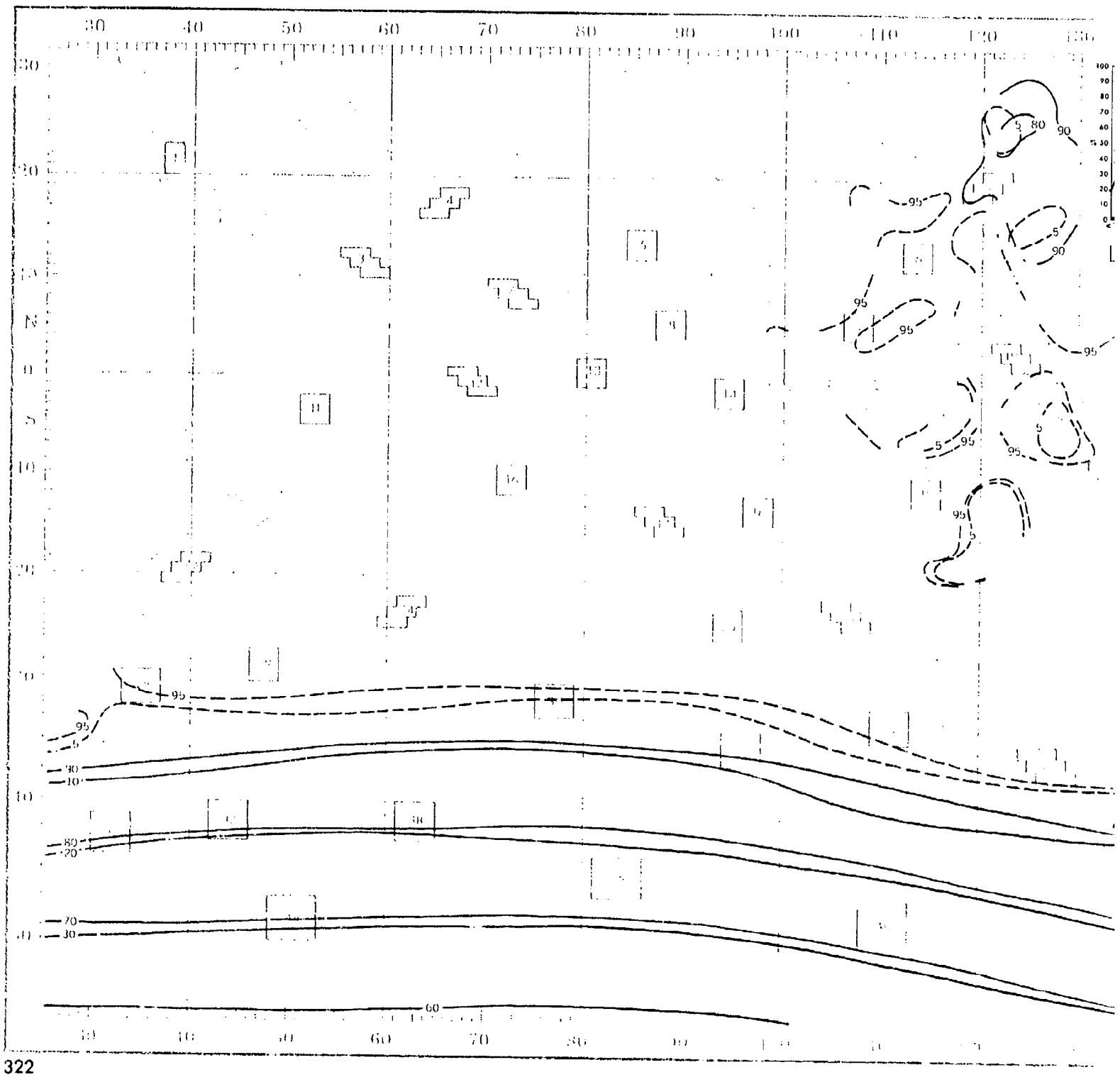
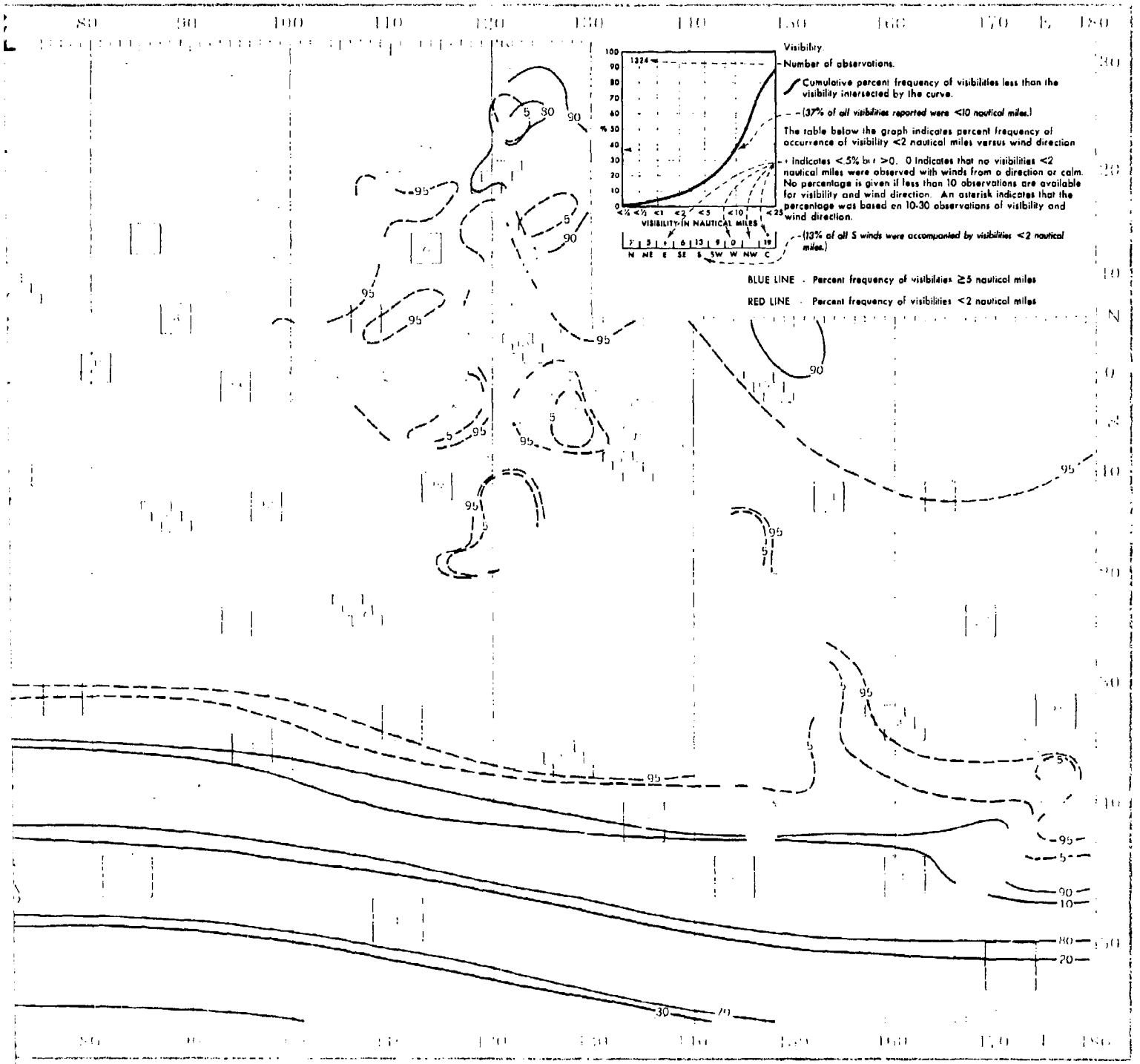
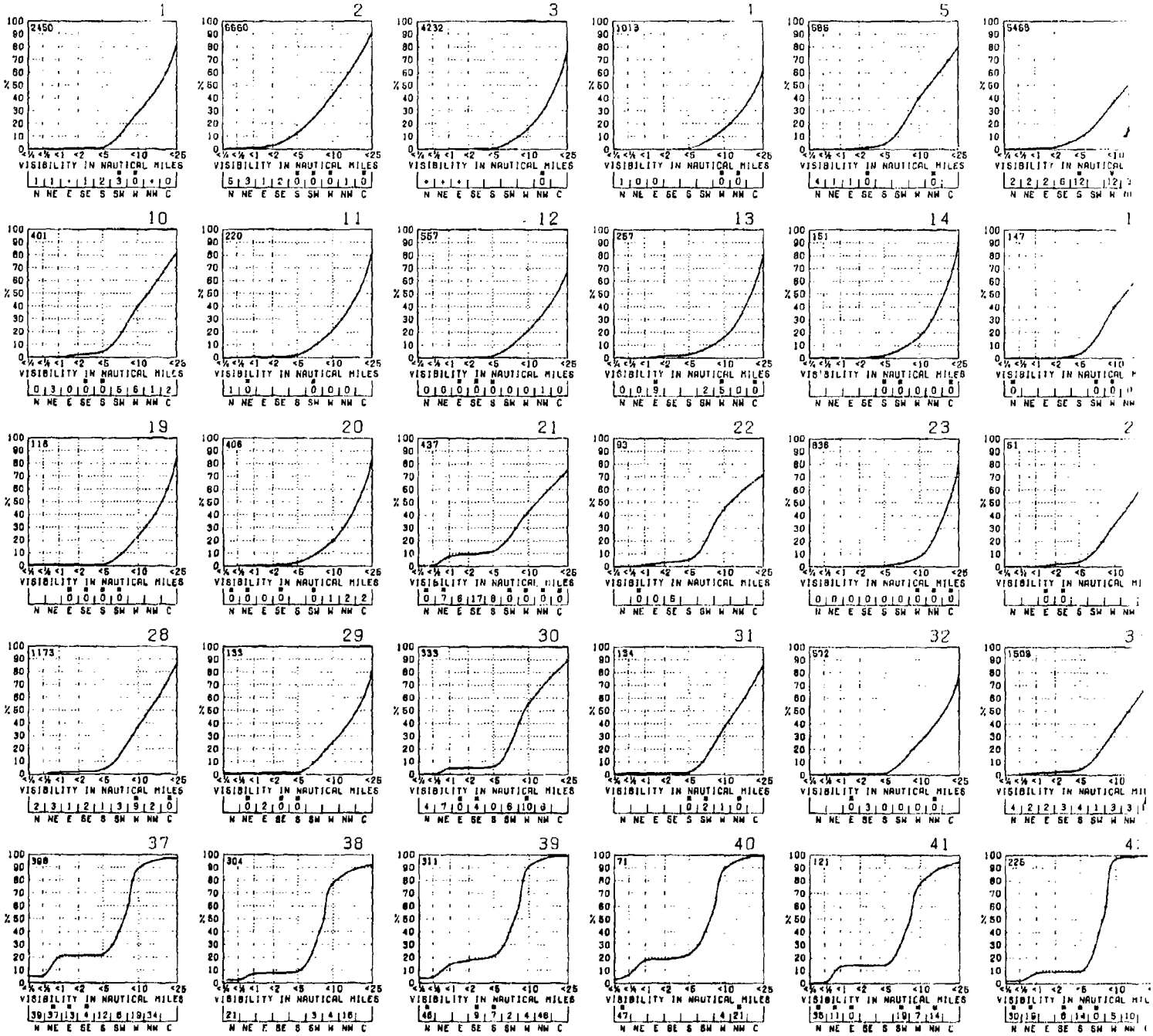


VISIBILITY


Visibility.
Number of observations.
Cumulative percent frequency of visibilities less than the visibility intersected by the curve.
(37% of all visibilities reported were <10 nautical miles.)
The table below the graph indicates percent frequency of occurrence of visibility <2 nautical miles versus wind direction
+ indicates <.5% but >0. 0 indicates that no visibilities <2 nautical miles were observed with winds from a direction or calm. No percentage is given if less than 10 observations are available for visibility and wind direction. An asterisk indicates that the percentage was based on 10-30 observations of visibility and wind direction.
(13% of all S winds were accompanied by visibilities <2 nautical miles.)
1324
% 50
VISIBILITY IN NAUTICAL MILES
N NE E SE S SW W NW C
BLUE LINE - Percent frequency of visibilities ≥5 nautical miles
RED LINE - Percent frequency of visibilities <2 nautical miles

VISIBILITY



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The isopleth analyses (opposite page) are based on all available data subjectively adjust

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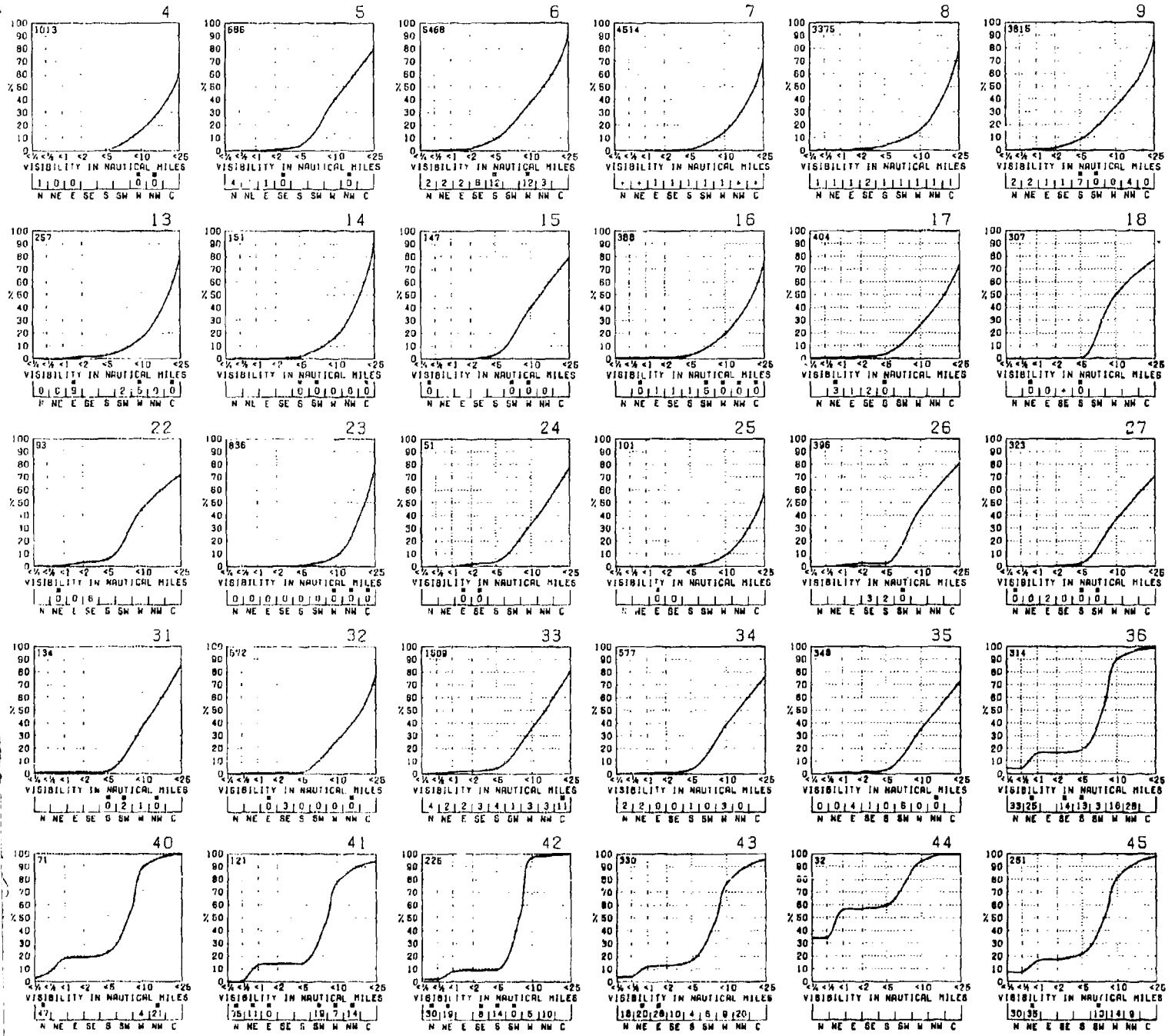

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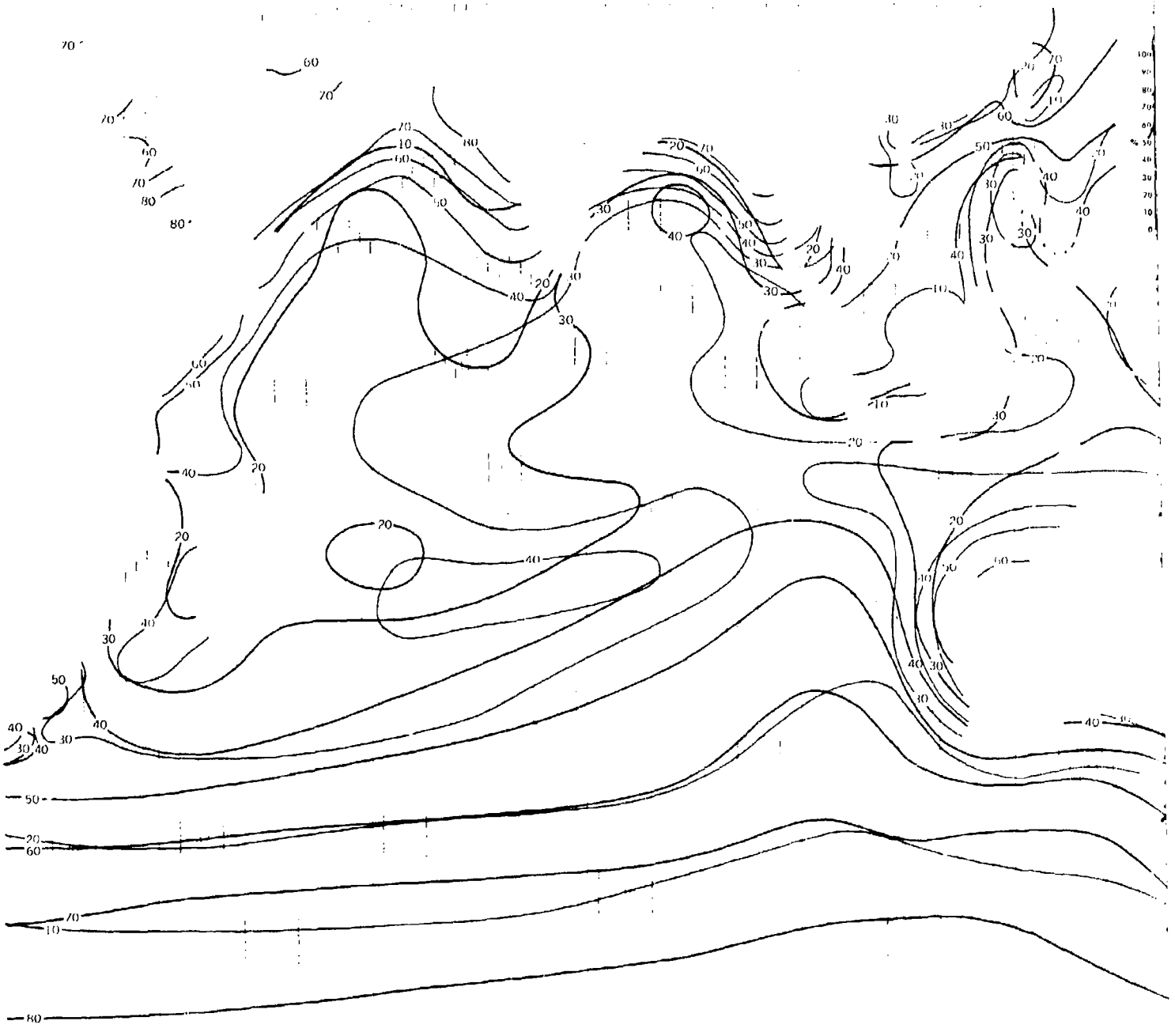
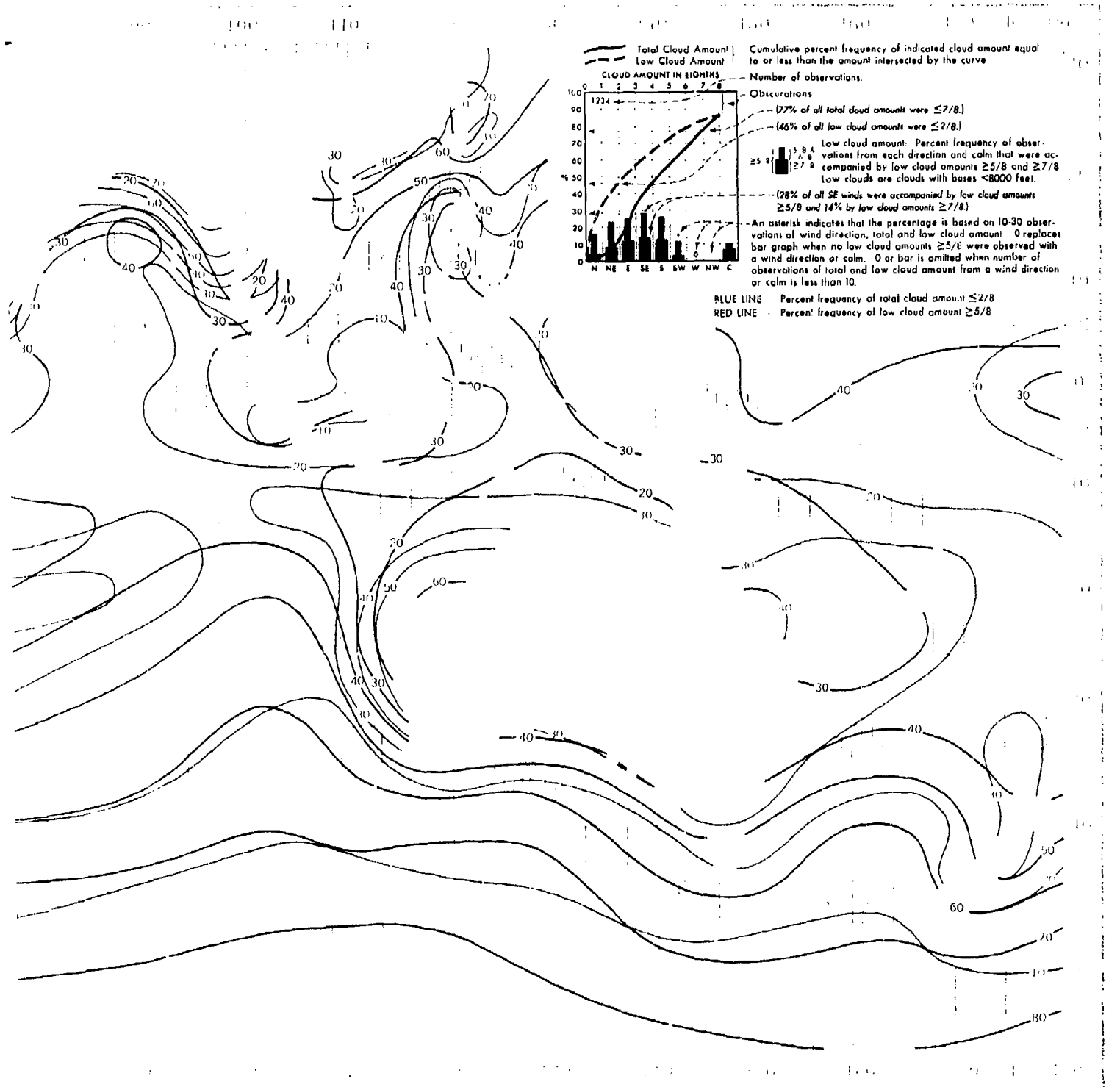
pposite page) are based on all available data subjectively adjusted where bias was evident.

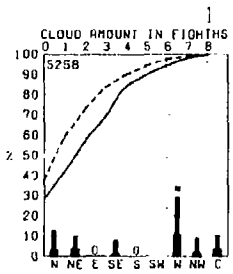
DECEMBER

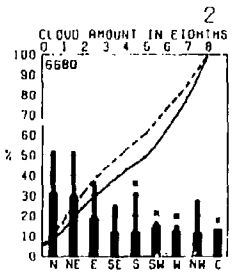


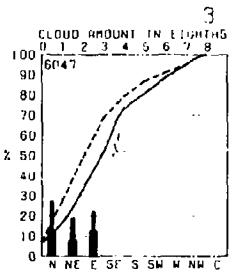
CLOUD COVER

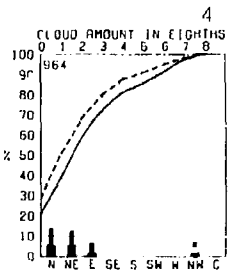

Total Cloud Amount
Low Cloud Amount
Cumulative percent frequency of indicated cloud amount equal to or less than the amount intersected by the curve
CLOUD AMOUNT IN EIGHTHS
0 1 2 3 4 5 6 7 8
Number of observations.
Observations
(77% of all total cloud amounts were ≤7/8.)
(46% of all low cloud amounts were ≤2/8.)
Low cloud amount: Percent frequency of observations from each direction and calm that were accompanied by low cloud amounts ≥5/8 and ≥7/8 Low clouds are clouds with bases <8000 feet.
(28% of all SE winds were accompanied by low cloud amounts ≥5/8 and 14% by low cloud amounts ≥7/8)
An asterisk indicates that the percentage is based on 10-30 observations of wind direction, total and low cloud amount 0 replaces bar graph when no low cloud amounts ≥5/8 were observed with a wind direction or calm. 0 or bar is omitted when number of observations of total and low cloud amount from a wind direction or calm is less than 10.
BLUE LINE Percent frequency of total cloud amount ≤2/8
RED LINE Percent frequency of low cloud amount ≥5/8
N NE E SE S SW W NW C

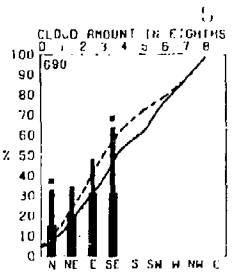
CLOUD COVER

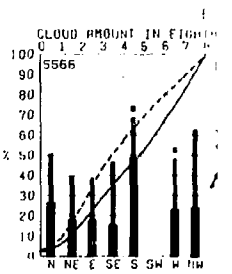


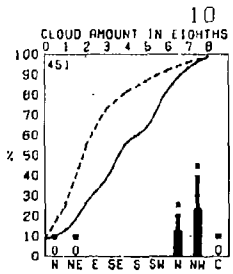


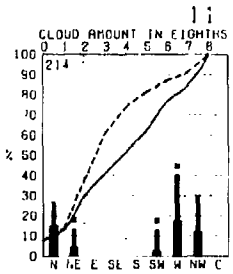


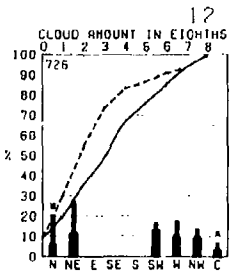


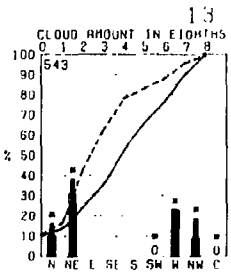


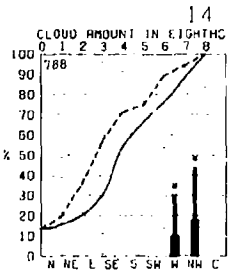


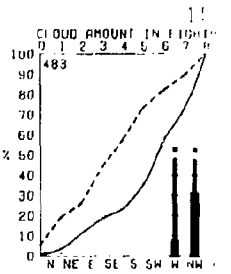


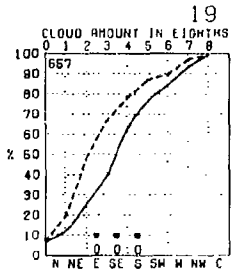


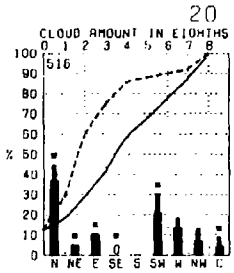


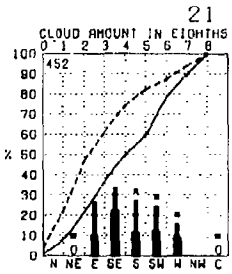


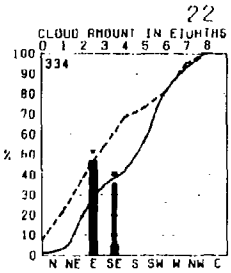


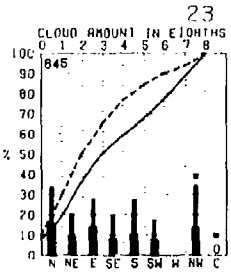


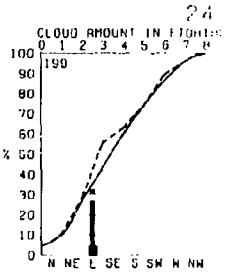


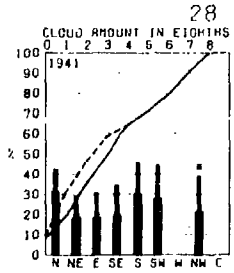


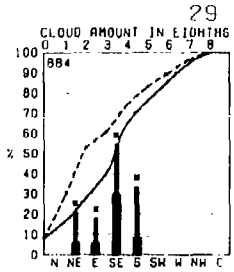


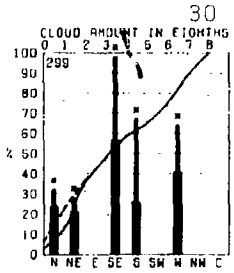


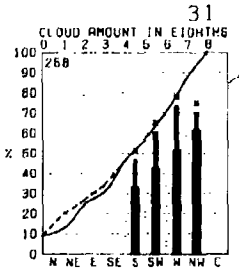


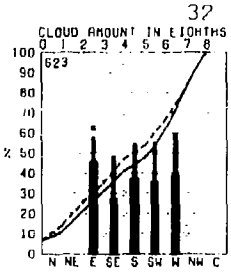


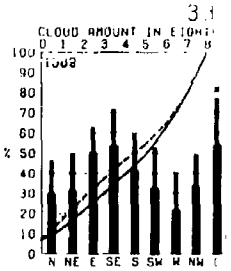


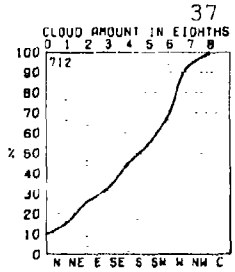


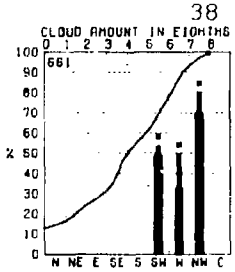


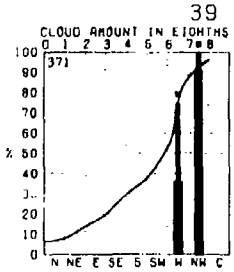


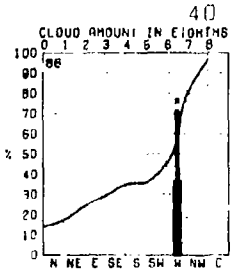


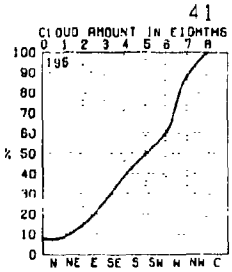


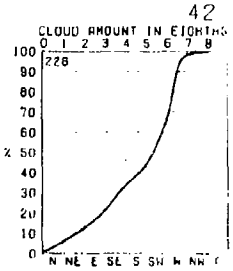






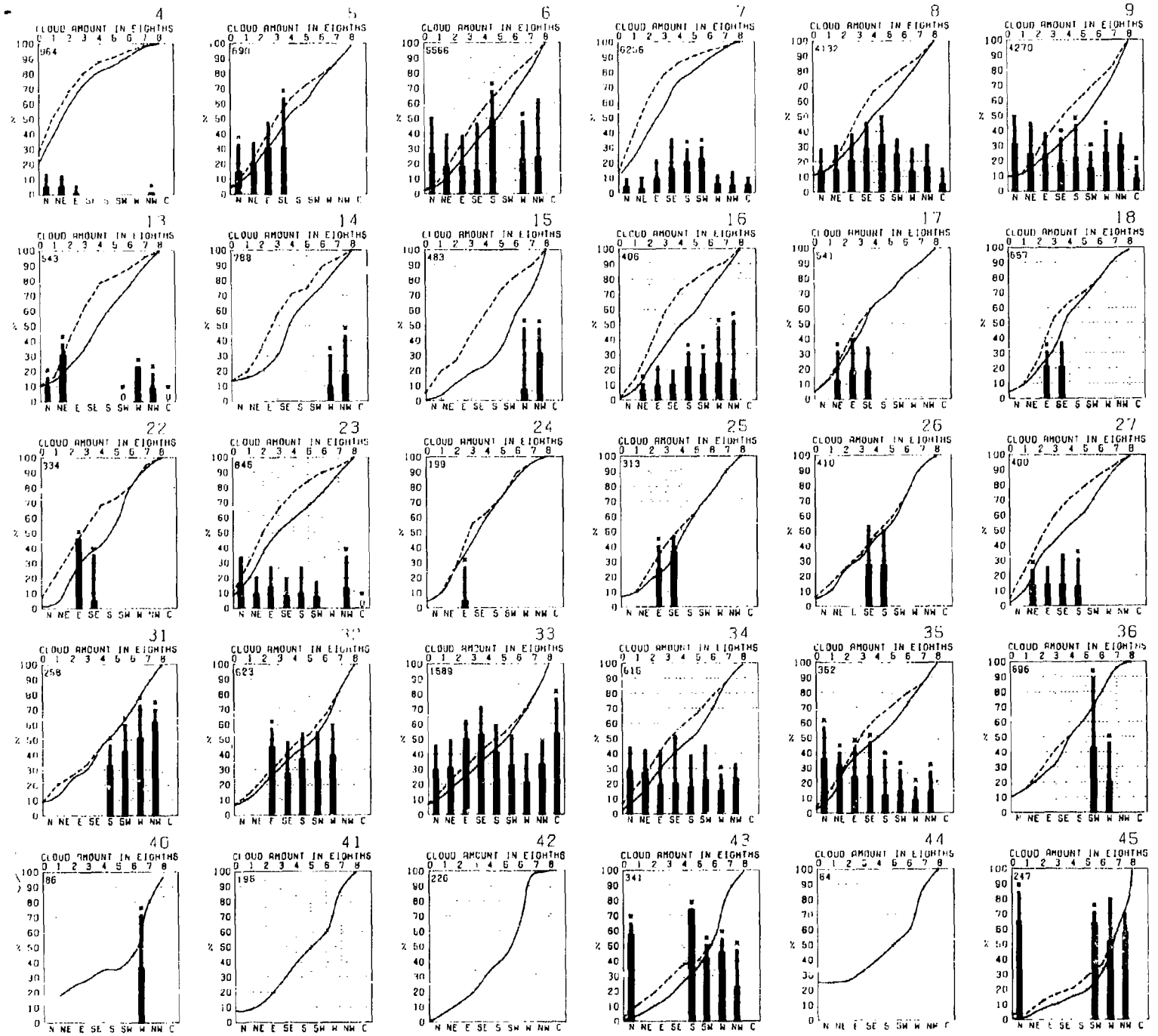






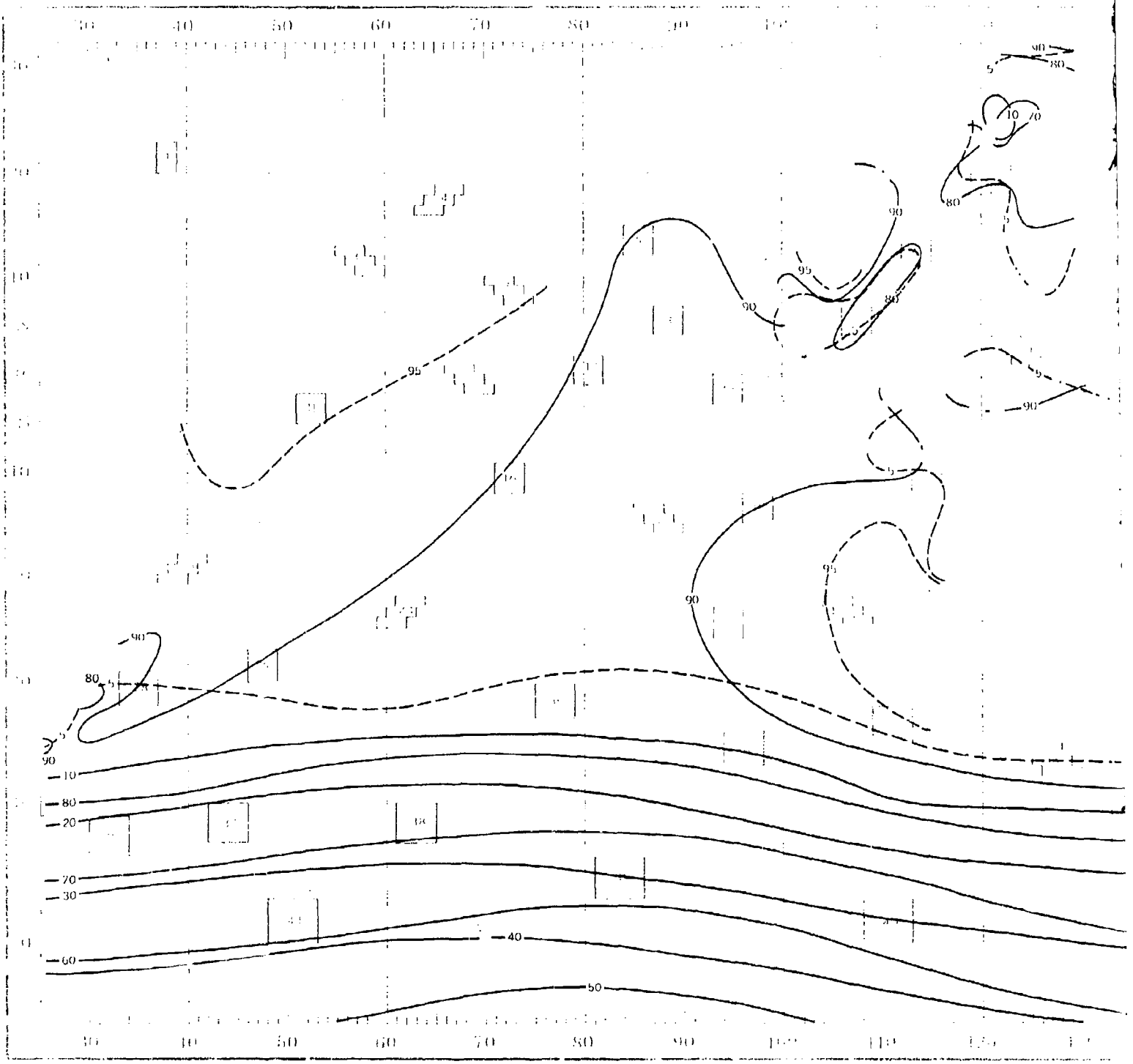
Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjus

DECEMBER

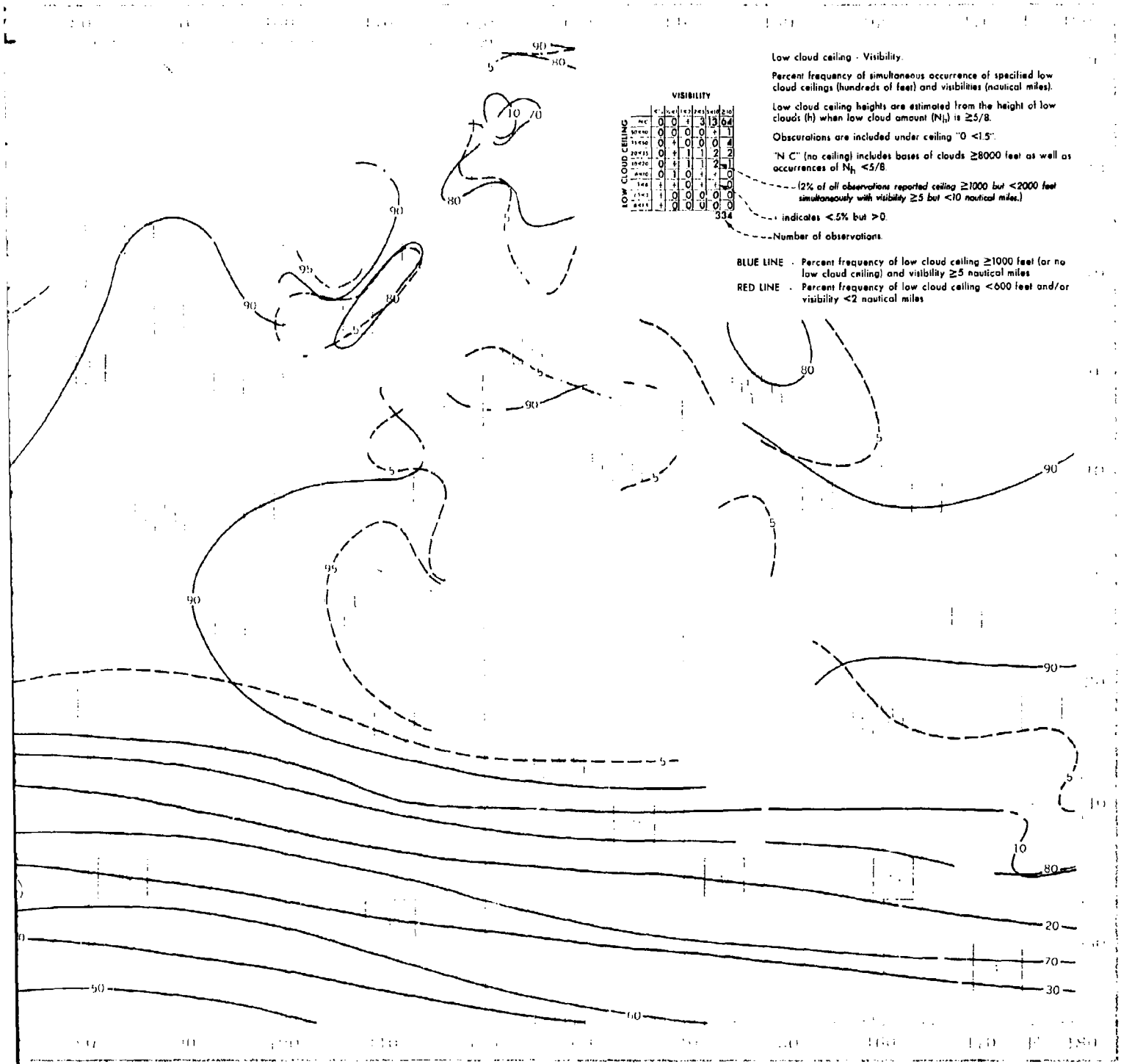


ictive compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER



CEILING AND VISIBILITY



CEILING AND VISIBILITY

1

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	1	4	85
50-<80	0	0	0	0	0	+
35-<50	0	0	0	0	+	+
20-<35	0	0	0	+	+	3
10-<20	0	0	0	+	+	3
5-<10	0	0	0	+	0	2
3-<5	0	0	0	0	0	+
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

723

2

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	+	+	2	12	39
50-<80	0	0	0	0	+	+
35-<50	0	0	0	+	+	1
20-<35	0	0	+	1	3	5
10-<20	+	+	+	3	8	8
5-<10	+	+	+	3	5	3
3-<5	+	+	+	1	1	1
1.5-<3	+	+	+	+	+	+
0-<1.5	+	+	+	+	+	0

5401

3

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	78
50-<80	0	0	0	0	+	1
35-<50	0	0	0	+	+	2
20-<35	0	0	0	0	1	5
10-<20	0	0	+	0	1	6
5-<10	0	0	0	+	1	3
3-<5	0	0	0	+	+	+
1.5-<3	0	0	+	0	+	0
0-<1.5	0	0	0	0	0	0

1294

4

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	84
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	+	3
20-<35	0	0	0	0	+	2
10-<20	0	0	0	0	+	3
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	+
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

632

5

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	56
50-<80	0	0	0	0	1	1
35-<50	0	0	0	1	1	1
20-<35	0	0	+	1	2	5
10-<20	0	0	+	1	5	8
5-<10	0	0	0	+	2	3
3-<5	0	0	0	+	+	+
1.5-<3	0	0	0	+	0	0
0-<1.5	+	0	+	+	1	0

308

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<
NC	0	0	+	1	1
50-<80	0	0	0	0	
35-<50	0	0	+	+	
20-<35	0	+	+	1	
10-<20	0	+	+	1	
5-<10	+	+	+	2	
3-<5	+	+	+	1	
1.5-<3	0	0	+	+	
0-<1.5	+	+	+	+	

10

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	7	75
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	1	1
10-<20	0	0	0	0	0	4
5-<10	0	0	0	0	0	6
3-<5	0	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	1	0	1

89

11

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	88
50-<80	0	0	0	0	1	1
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	4
10-<20	0	0	0	0	6	6
5-<10	0	0	0	0	2	5
3-<5	0	0	0	0	1	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	1	0	0	0	1

144

12

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	81
50-<80	0	0	0	0	+	0
35-<50	0	0	0	0	+	1
20-<35	0	0	0	0	1	4
10-<20	0	0	0	+	1	4
5-<10	0	0	0	0	3	2
3-<5	0	0	0	+	1	+
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

306

13

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	78
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	1	5
10-<20	0	0	0	0	1	5
5-<10	0	0	0	1	1	2
3-<5	0	0	0	0	1	3
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

126

14

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	70
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	6	4
10-<20	0	0	0	0	0	6
5-<10	0	0	0	0	0	4
3-<5	0	0	0	0	0	8
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

60

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<
NC	0	0	0	2	
50-<80	0	0	0	0	
35-<50	0	0	0	0	
20-<35	0	0	0	0	
10-<20	0	0	0	0	
5-<10	0	0	0	0	
3-<5	0	0	0	2	
1.5-<3	0	0	0	0	
0-<1.5	0	0	0	0	

19

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	74
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	2	8
10-<20	0	0	0	0	0	6
5-<10	2	0	0	0	3	2
3-<5	0	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

82

20

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	6	82
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	0	0
10-<20	0	0	0	0	1	2
5-<10	0	0	0	0	2	4
3-<5	1	0	0	0	1	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

165

21

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	87
50-<80	0	0	0	0	1	0
35-<50	0	0	0	1	0	1
20-<35	0	0	0	0	1	3
10-<20	0	0	0	1	1	7
5-<10	1	0	0	0	2	4
3-<5	0	0	0	0	1	1
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	1	0	1

201

22

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	67
50-<80	0	0	3	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	1	0	5
10-<20	0	0	0	0	3	10
5-<10	0	0	0	0	0	5
3-<5	0	0	0	0	3	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

39

23

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	75
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	+	3
10-<20	0	0	0	0	2	8
5-<10	0	0	0	+	1	4
3-<5	0	0	0	0	+	1
1.5-<3	0	0	0	+	0	+
0-<1.5	0	0	0	0	0	+

665

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10
NC	0	0	0	0	
50-<80	0	0	0	0	
35-<50	0	0	0	0	
20-<35	0	0	0	0	
10-<20	0	0	0	3	
5-<10	0	0	0	3	
3-<5	0	.	0	0	
1.5-<3	0	0	0	0	
0-<1.5	0	0	0	0	

28

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	62
50-<80	0	0	0	0	1	1
35-<50	0	0	0	0	+	2
20-<35	0	0	+	1	+	6
10-<20	0	+	0	+	3	10
5-<10	0	0	0	+	2	5
3-<5	0	0	0	+	1	2
1.5-<3	0	0	+	0	0	0
0-<1.5	0	0	0	+	0	0

620

29

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	69
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	1	6
10-<20	0	0	0	0	1	9
5-<10	0	0	0	0	1	6
3-<5	0	0	0	0	0	0
1.5-<3	0	1	0	0	0	0
0-<1.5	0	0	0	0	0	0

81

30

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	1	51
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	3
20-<35	0	0	0	0	0	5
10-<20	0	0	0	2	3	17
5-<10	0	0	0	1	3	10
3-<5	0	0	0	0	0	0
1.5-<3	1	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

115

31

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	36
50-<80	0	0	0	0	0	4
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	2	12
10-<20	0	0	0	0	8	26
5-<10	0	0	0	0	0	7
3-<5	0	0	0	0	1	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

92

32

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	*	0	0	+	2	46
50-<80	0	0	0	0	+	2
35-<50	0	0	0	+	2	8
20-<35	0	0	0	0	2	15
10-<20	0	0	0	+	2	17
5-<10	0	0	0	0	1	5
3-<5	0	0	0	0	0	*
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	+	0

378

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10
NC	0	0	0	1	2
50-<80	0	0	0	0	*
35-<50	0	0	0	0	1
20-<35	0	0	0	*	2
10-<20	0	0	+	1	2
5-<10	0	0	0	*	1
3-<5	*	0	0	0	0
1.5-<3	0	0	0	0	0
0-<1.5	+	+	0	+	0

37

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	24
50-<80	0	0	0	0	0	4
35-<50	0	0	0	0	0	12
20-<35	0	0	0	0	6	12
10-<20	0	0	0	0	8	16
5-<10	0	0	4	0	4	4
3-<5	0	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

25

38

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	42
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	2	10
20-<35	0	0	0	0	0	6
10-<20	0	0	2	0	6	13
5-<10	0	0	2	2	2	4
3-<5	2	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	0	0	0	0	0	0

48

39

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	13
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	9	16
10-<20	0	0	2	7	2	4
5-<10	0	2	5	11	9	2
3-<5	0	0	5	0	0	0
1.5-<3	0	2	0	0	0	0
0-<1.5	7	4	0	0	0	0

55

40

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	13
50-<80	0	0	0	4	4	4
35-<50	0	0	0	0	8	0
20-<35	0	0	0	0	21	8
10-<20	0	0	0	0	13	4
5-<10	0	0	0	4	0	0
3-<5	0	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	13	0	0	0	0	0

24

41

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	12
50-<80	0	0	0	0	3	3
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	0	15
10-<20	0	0	0	0	6	24
5-<10	0	0	3	0	12	15
3-<5	0	0	0	0	0	0
1.5-<3	0	0	0	0	0	0
0-<1.5	3	0	0	0	0	0

33

LOW CLOUD CEILING	<1/2	1/2-<1	1-<2	2-<5	5-<10
NC	0	0	0	1	
50-<80	0	0	0	0	
35-<50	0	0	0	0	
20-<35	0	0	+	1	
10-<20	0	0	0	+	
5-<10	0	0	0	+	
3-<5	+	0	0	0	
1.5-<3	0	0	0	0	
0-<1.5	+	+	0	+	

4

INSUFFICIEN DATA

Graphs represent the objective compilation of available data for specified areas without
The isopleth analyses (opposite page) are based on all available data subjectively adju

DECEMBER

4

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	4	84
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	+	3
20-<35	0	0	0	0	+	2
10-<20	0	0	0	0	+	3
5-<10	0	0	0	0	0	1
3-<5	0	0	0	0	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

632

5

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	8	66
50-<80	0	0	0	0	1	1
35-<50	0	0	0	1	1	1
20-<35	0	0	+	1	2	5
10-<20	0	0	+	1	5	8
5-<10	0	0	0	+	2	3
3-<5	0	0	0	+	+	+
1-<3	0	0	0	+	0	0
0-<1	+	0	+	+	1	0

308

6

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	+	1	14	43
50-<80	0	0	0	0	0	+
35-<50	0	0	+	+	1	1
20-<35	0	+	+	1	3	4
10-<20	0	+	+	1	7	9
5-<10	+	+	+	2	5	4
3-<5	+	+	+	1	1	+
1-<3	0	0	+	+	+	+
0-<1	+	+	+	+	+	+

4805

7

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	2	84
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	+	2
20-<35	0	0	0	0	+	2
10-<20	0	+	+	0	1	4
5-<10	0	0	0	+	+	1
3-<5	0	0	0	0	+	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	+

1322

8

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	1	5	81
50-<80	0	0	0	+	+	1
35-<50	0	0	0	0	+	2
20-<35	+	0	+	+	2	3
10-<20	0	0	+	1	3	10
5-<10	0	+	+	1	2	5
3-<5	0	0	+	+	1	1
1-<3	+	0	0	+	+	+
0-<1	+	+	0	+	+	+

1356

9

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	+	2	12	40
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	+	1
20-<35	0	0	+	1	2	5
10-<20	+	+	+	2	8	9
5-<10	0	+	+	3	5	4
3-<5	+	+	+	1	1	1
1-<3	0	0	+	+	+	+
0-<1	+	+	+	+	+	+

2067

13

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	76
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	1	5
10-<20	0	0	0	0	1	5
5-<10	0	0	0	1	1	2
3-<5	0	0	0	0	1	3
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

126

14

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	70
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	2
20-<35	0	0	0	0	0	4
10-<20	0	0	0	0	0	6
5-<10	0	0	0	0	0	4
3-<5	0	0	0	0	0	6
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

50

15

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	2	4	56
50-<80	0	0	0	0	0	2
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	2	4
10-<20	0	0	0	0	0	13
5-<10	0	0	0	0	4	12
3-<5	0	0	0	2	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

52

16

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	4	68
50-<80	0	0	0	0	+	+
35-<50	0	0	0	0	+	+
20-<35	0	0	0	0	1	4
10-<20	0	0	0	+	6	6
5-<10	0	0	0	1	2	5
3-<5	0	0	0	0	1	1
1-<3	0	+	0	+	0	+
0-<1	0	0	0	0	0	0

271

17

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	58
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	1	3
20-<35	0	0	0	+	1	7
10-<20	0	0	0	1	3	10
5-<10	0	0	+	+	3	4
3-<5	0	0	0	0	1	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

208

18

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	84
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	1	7
20-<35	0	0	0	0	1	7
10-<20	0	0	1	0	2	7
5-<10	0	0	0	0	1	3
3-<5	0	0	0	0	0	1
1-<3	0	0	0	0	0	1
0-<1	0	0	0	0	0	1

139

22

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	5	67
50-<80	0	0	3	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	5
10-<20	0	0	0	0	2	10
5-<10	0	0	0	0	0	5
3-<5	0	0	0	0	3	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

39

23

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	+	2	75
50-<80	0	0	0	0	+	1
35-<50	0	0	0	0	0	1
20-<35	0	0	0	0	+	3
10-<20	0	0	0	0	2	8
5-<10	0	0	0	+	1	4
3-<5	0	0	0	0	+	1
1-<3	0	0	0	+	0	+
0-<1	0	0	0	0	0	+

565

24

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	63
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	0
20-<35	0	0	0	0	0	3
10-<20	0	0	3	0	5	11
5-<10	0	0	0	3	5	8
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

38

25

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	55
50-<80	0	0	1	0	0	0
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	0	18
10-<20	0	0	0	0	1	10
5-<10	0	0	0	0	1	9
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

67

26

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	48
50-<80	0	0	0	0	1	8
35-<50	0	0	0	0	0	15
20-<35	0	0	0	0	3	15
10-<20	0	0	0	0	1	8
5-<10	0	0	0	0	0	2
3-<5	0	0	0	0	0	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

193

27

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	1	70
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	1	5
10-<20	0	0	0	0	2	10
5-<10	0	0	0	1	2	5
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

188

31

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	2	36
50-<80	0	0	0	0	0	4
35-<50	0	0	0	0	1	2
20-<35	0	0	0	0	2	12
10-<20	0	0	0	0	8	26
5-<10	0	0	0	0	0	7
3-<5	0	0	0	0	1	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

92

32

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	+	0	0	+	2	46
50-<80	0	0	0	0	+	2
35-<50	0	0	0	+	2	5
20-<35	0	0	0	0	2	15
10-<20	0	0	0	+	2	17
5-<10	0	0	0	0	1	6
3-<5	0	0	0	0	0	+
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	+

376

33

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	44
50-<80	0	0	0	0	+	3
35-<50	0	0	0	0	1	5
20-<35	0	0	0	+	2	11
10-<20	0	0	+	1	2	18
5-<10	0	0	0	+	1	8
3-<5	+	0	0	0	0	1
1-<3	0	0	0	0	0	+
0-<1	+	+	0	+	0	+

869

34

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	57
50-<80	0	0	0	0	0	1
35-<50	0	0	0	0	+	2
20-<35	0	0	0	+	1	5
10-<20	+	0	0	+	2	20
5-<10	0	0	0	2	3	3
3-<5	0	0	1	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

333

35

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	2	62
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	1	2
20-<35	0	0	0	1	1	7
10-<20	0	0	0	1	1	8
5-<10	0	0	0	1	2	6
3-<5	0	0	1	1	1	1
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	1	1

191

36

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	45
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	8	11
20-<35	0	0	0	3	0	13
10-<20	0	0	0	5	0	5
5-<10	0	0	0	0	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	0	0	0	0	0	0

38

40

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	4	13
50-<80	0	0	0	4	4	4
35-<50	0	0	0	0	8	0
20-<35	0	0	0	0	21	8
10-<20	0	0	0	0	13	4
5-<10	0	0	0	4	0	0
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	13	0	0	0	0	0

24

41

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	0	12
50-<80	0	0	0	0	3	3
35-<50	0	0	0	0	0	3
20-<35	0	0	0	0	0	15
10-<20	0	0	0	0	6	24
5-<10	0	0	3	0	12	15
3-<5	0	0	0	0	0	0
1-<3	0	0	0	0	0	0
0-<1	5	0	0	0	0	0

33

42

INSUFFICIENT DATA

43

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	0	6	32
50-<80	0	0	0	0	0	3
35-<50	0	0	0	0	0	0
20-<35	0	0	0	1	3	8
10-<20	0	1	0	1	10	15
5-<10	0	1	0	3	6	6
3-<5	0	0	0	0	1	1
1-<3	0	0	0	0	0	0
0-<1	2	0	0	1	0	0

98

44

INSUFFICIENT DATA

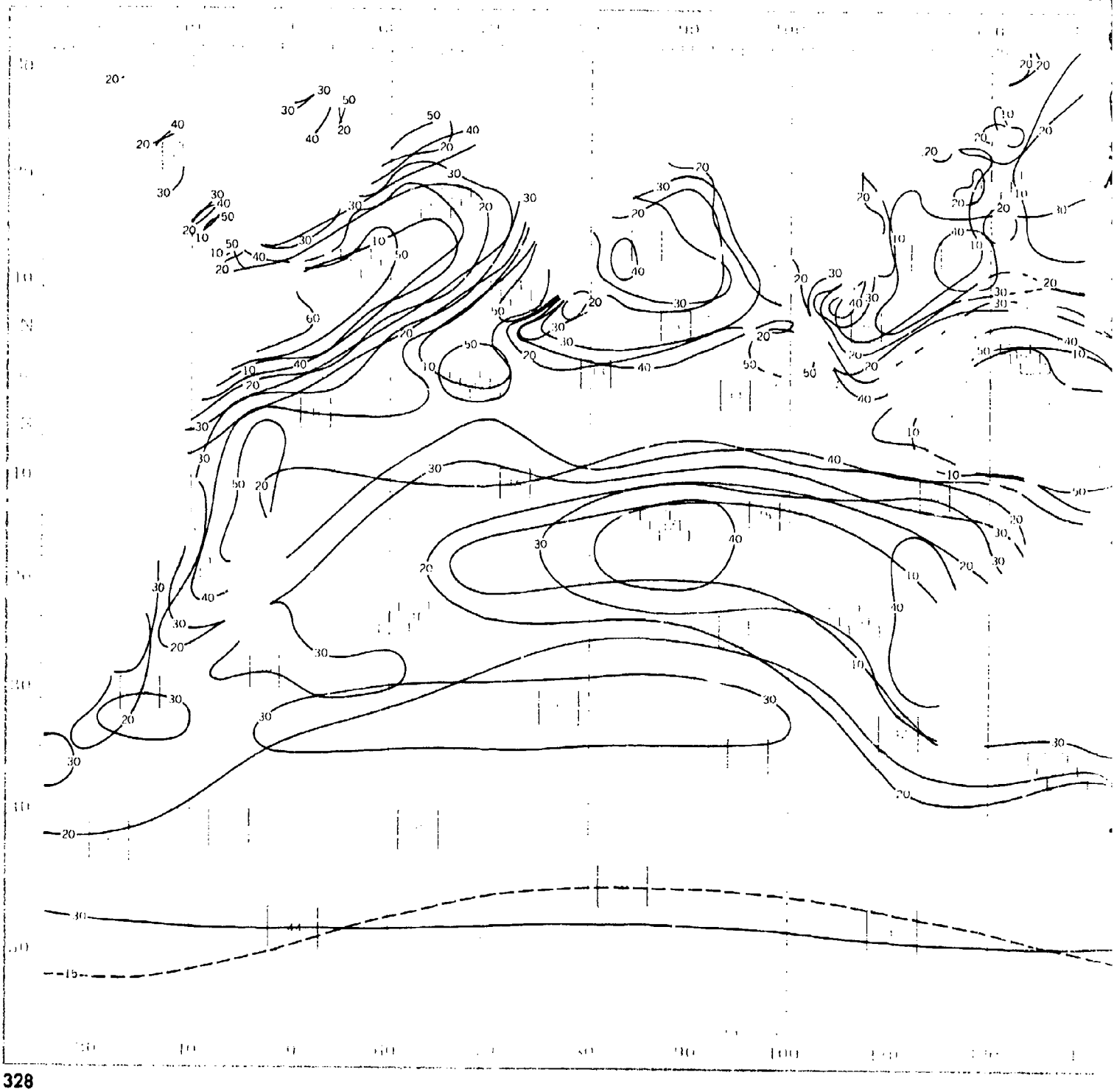
45

LOW CLOUD CEILING	VISIBILITY <1/2	1/2-<1	1-<2	2-<5	5-<10	≥10
NC	0	0	0	1	11	12
50-<80	0	0	0	0	0	0
35-<50	0	0	0	0	1	1
20-<35	0	0	1	3	20	8
10-<20	0	0	0	2	22	7
5-<10	0	0	0	1	6	1
3-<5	0	0	0	1	0	0
1-<3	0	0	0	0	0	0
0-<1	0	2	1	0	0	0

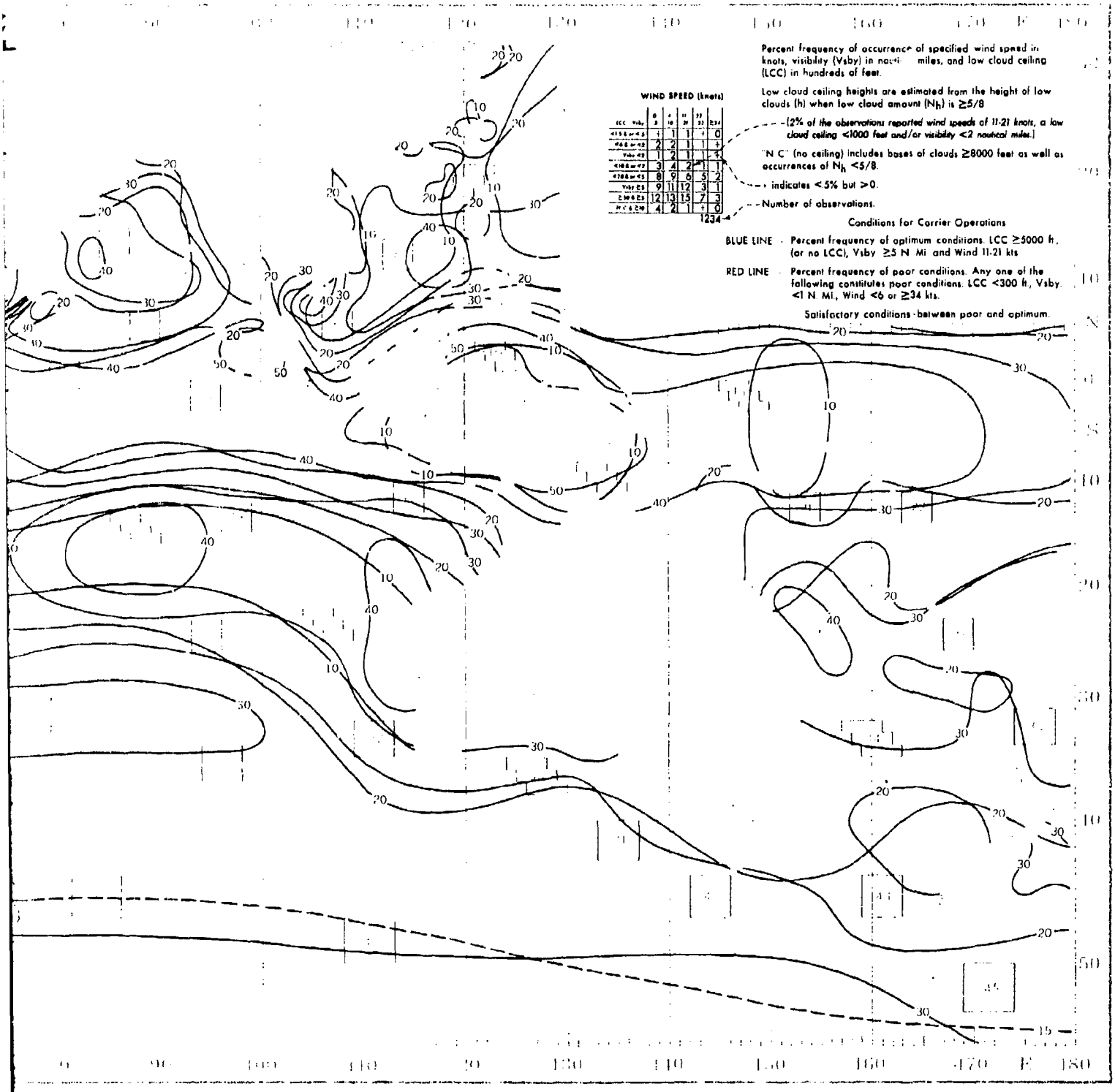
143

ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER



WIND-VISIBILITY-CLOUDINESS



WIND SPEED (knots)

LCC Vsby	0 3	4 10	11 21	22 33	≥34
<15 & or <5	+	1	1	+	0
<6 & or <3	2	2	1	+	+
Vsby <3	1	2	1	+	+
<100 & or <2	3	4	2	1	1
<200 & or <3	8	9	6	5	2
Vsby 3-5	9	11	12	3	1
2,500 & 3-5	12	13	15	7	3
N<6 2,500	4	2	1	+	0
	1	2	3	4	

Percent frequency of occurrence of specified wind speed in knots, visibility (Vsby) in nautical miles, and low cloud ceiling (LCC) in hundreds of feet.

Low cloud ceiling heights are estimated from the height of low clouds (h) when low cloud amount (N_h) is ≥5/8

[2% of the observations reported wind speeds of 11-21 knots, a low cloud ceiling <1000 feet and/or visibility <2 nautical miles.]

"N C" (no ceiling) includes bases of clouds ≥8000 feet as well as occurrences of N_h <5/8.

+ indicates <.5% but >0.

Number of observations.

Conditions for Carrier Operations

BLUE LINE - Percent frequency of optimum conditions. LCC ≥5000 ft. (or no LCC), Vsby ≥5 N Mi and Wind 11-21 kts

RED LINE - Percent frequency of poor conditions. Any one of the following constitutes poor conditions: LCC <300 ft, Vsby. <1 N Mi., Wind <6 or ≥34 kts.

Satisfactory conditions between poor and optimum.

LOW CLOUD CEILING-VISIBILITY-WIND

1

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	+	+	0	0
VSBY <2	0	0	+	0	0
<10 & OR <2	+	1	1	0	0
<20 & OR <5	1	2	4	+	0
VSBY ≥5	13	44	39	2	0
≥60 & ≥5	12	41	35	2	0
NC & ≥10	12	39	33	1	0

712

2

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	+	+	+
<6 & OR <2	+	+	2	3	1
VSBY <2	0	+	1	1	1
<10 & OR <2	+	1	5	8	3
<20 & OR <5	+	2	13	19	5
VSBY ≥5	1	9	36	35	6
≥60 & ≥5	1	7	23	18	2
NC & ≥10	1	7	19	12	1

5369

3

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	+	1	+	+
VSBY <2	0	0	+	0	0
<10 & OR <2	+	1	4	+	+
<20 & OR <5	+	2	10	1	+
VSBY ≥5	1	31	63	4	+
≥60 & ≥5	1	27	48	2	+
NC & ≥10	1	26	47	2	+

1287

4

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	+	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	+	1	+	0
<20 & OR <5	0	2	3	+	0
VSBY ≥5	6	51	41	2	0
≥60 & ≥5	6	47	36	1	0
NC & ≥10	6	44	34	1	0

626

5

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	1	1	0
<6 & OR <2	0	+	2	1	0
VSBY <2	0	0	1	1	0
<10 & OR <2	0	2	5	2	+
<20 & OR <5	0	6	16	3	+
VSBY ≥5	1	34	52	7	+
≥60 & ≥5	1	27	36	4	0
NC & ≥10	+	25	30	1	0

307

WIND SPEED

LCC - VSBY	0-3	4-10	11-
<1.5 & OR <.5	+	+	
<6 & OR <2	+	+	
VSBY <2	0	+	
<10 & OR <2	+	1	
<20 & OR <5	+	3	1
VSBY ≥5	+	11	5
≥60 & ≥5	+	9	3
NC & ≥10	+	7	2

10

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	3	0	0
<6 & OR <2	0	0	3	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	4	3	0	0
<20 & OR <5	3	6	4	0	0
VSBY ≥5	40	54	4	0	0
≥60 & ≥5	37	44	1	0	0
NC & ≥10	37	37	1	0	0

68

11

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	0	0
<6 & OR <2	0	1	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	6	3	0	0
<20 & OR <5	0	13	6	0	0
VSBY ≥5	11	64	24	0	0
≥60 & ≥5	11	48	17	0	0
NC & ≥10	11	44	15	0	0

143

12

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	+	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	3	1	+	0
<20 & OR <5	1	7	2	+	0
VSBY ≥5	28	59	12	+	0
≥60 & ≥5	26	48	10	0	0
NC & ≥10	24	48	10	0	0

284

13

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	3	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	5	2	0	0
<20 & OR <5	2	5	6	0	0
VSBY ≥5	21	58	20	0	0
≥60 & ≥5	19	46	12	0	0
NC & ≥10	19	45	12	0	0

126

14

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	4	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	6	2	0	0
<20 & OR <5	2	12	2	0	0
VSBY ≥5	27	53	20	0	0
≥60 & ≥5	24	35	12	0	0
NC & ≥10	24	33	12	0	0

49

WIND SPEED

LCC - VSBY	0-3	4-10	11-
<1.5 & OR <.5	0	0	
<6 & OR <2	0	0	
VSBY <2	0	0	
<10 & OR <2	6	6	6
<20 & OR <5	8	15	10
VSBY <5	31	48	15
≥60 & ≥5	23	33	6
NC & ≥10	21	31	4

19

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	2	0	0
<6 & OR <2	0	0	2	0	0
VSBY <2	0	0	2	0	0
<10 & OR <2	0	2	5	0	0
<20 & OR <5	2	2	8	2	0
VSBY ≥5	15	51	31	2	0
≥60 & ≥5	11	43	21	0	0
NC & ≥10	11	43	20	0	0

61

20

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<6 & OR <2	0	1	1	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	4	3	0	0
<20 & OR <5	2	5	4	1	0
VSBY ≥5	33	54	10	1	0
≥60 & ≥5	32	49	7	0	0
NC & ≥10	28	47	7	0	0

166

21

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	0	0
<6 & OR <2	0	1	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	6	5	0	0
<20 & OR <5	2	10	10	0	0
VSBY ≥5	18	55	23	1	0
≥60 & ≥5	17	44	13	0	0
NC & ≥10	16	39	12	0	0

198

22

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	3	3	0	0	0
VSBY <2	3	0	0	0	0
<10 & OR <2	3	5	0	3	0
<20 & OR <5	8	10	0	3	3
VSBY ≥5	21	46	26	3	3
≥60 & ≥5	15	36	21	0	0
NC & ≥10	13	33	21	0	0

39

23

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	+	0	0
<6 & OR <2	0	+	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	+	4	2	1	0
<20 & OR <5	1	9	5	1	0
VSBY ≥5	14	56	28	2	0
≥60 & ≥5	13	44	21	1	0
NC & ≥10	13	42	20	1	0

658

WIND SPEED (KN

LCC - VSBY	0-3	4-10	11-
<1.5 & OR <.5	0	0	0
<6 & OR <2	0	0	3
VSBY <2	0	0	3
<10 & OR <2	3	3	13
<20 & OR <5	3	11	21
VSBY ≥5	5	39	50
≥60 & ≥5	3	29	32
NC & ≥10	3	29	32

28

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	+	0	0	0
<6 & OR <2	+	1	1	1	+
VSBY <2	0	0	+	0	+
<10 & OR <2	+	3	5	2	1
<20 & OR <5	1	8	11	4	1
VSBY ≥5	8	38	42	11	1
≥60 & ≥5	4	27	27	7	+
NC & ≥10	4	26	26	6	+

619

29

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	1	0	4	2	0
<20 & OR <5	1	2	11	2	0
VSBY ≥5	6	37	42	14	1
≥60 & ≥5	6	31	27	9	1
NC & ≥10	5	30	26	9	0

81

30

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	0	0	0
<6 & OR <2	0	1	0	0	0
VSBY <2	0	1	0	0	0
<10 & OR <2	0	9	5	1	0
<20 & OR <5	2	19	14	2	1
VSBY ≥5	8	62	35	1	0
≥60 & ≥5	8	29	18	0	0
NC & ≥10	8	29	16	0	0

114

31

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	2	0
<20 & OR <5	1	20	13	7	0
VSBY ≥5	7	45	34	14	0
≥60 & ≥5	2	23	11	5	0
NC & ≥10	2	20	10	3	0

88

32

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	1	0	0	0	0
<6 & OR <2	1	0	+	0	0
VSBY <2	+	0	0	0	0
<10 & OR <2	1	1	3	1	0
<20 & OR <5	1	8	14	3	0
VSBY ≥5	3	35	51	9	1
≥60 & ≥5	2	18	25	5	1
NC & ≥10	2	17	22	5	1

373

WIND SPEED (KN

LCC - VSBY	0-3	4-10	11-
<1.5 & OR <.5	+	1	+
<6 & OR <2	+	1	+
VSBY <2	+	1	0
<10 & OR <2	1	4	4
<20 & OR <5	2	12	14
VSBY ≥5	5	38	44
≥60 & ≥5	3	19	23
NC & ≥10	3	17	19

37

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<6 & OR <2	0	0	0	4	0
VSBY <2	0	0	0	4	0
<10 & OR <2	0	0	8	4	0
<20 & OR <5	0	0	8	20	8
VSBY ≥5	0	4	32	44	16
≥60 & ≥5	0	0	16	8	6
NC & ≥10	0	0	16	4	4

26

38

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	0	0
<6 & OR <2	0	4	2	0	0
VSBY <2	0	4	2	0	0
<10 & OR <2	0	8	6	0	0
<20 & OR <5	0	13	15	8	0
VSBY ≥5	6	13	54	19	0
≥60 & ≥5	4	2	31	8	0
NC & ≥10	4	2	29	6	0

48

39

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	2	8	2
<6 & OR <2	0	8	2	17	4
VSBY <2	0	8	2	17	4
<10 & OR <2	2	0	8	27	8
<20 & OR <5	2	8	10	35	8
VSBY ≥5	0	10	10	27	8
≥60 & ≥5	0	4	2	8	0
NC & ≥10	0	4	2	8	0

52

40

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	4	8	0
<6 & OR <2	0	0	4	8	0
VSBY <2	0	0	4	8	0
<10 & OR <2	0	0	8	8	0
<20 & OR <5	0	4	17	13	4
VSBY ≥5	0	8	46	13	13
≥60 & ≥5	0	0	8	4	13
NC & ≥10	0	0	0	4	8

24

41

WIND SPEED (KNOTS)

LCC - VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	3	0	0	0
<6 & OR <2	0	3	3	0	0
VSBY <2	0	3	3	0	0
<10 & OR <2	0	13	16	3	3
<20 & OR <5	0	28	25	9	3
VSBY ≥5	3	34	41	13	3
≥60 & ≥5	0	3	9	3	0
NC & ≥10	0	0	9	0	0

32

INSUFFICIEN
DATA

Graphs represent the objective compilation of available data for specified areas withou
The isopleth analyses (opposite page) are based on all available data subjectively adju

ITY-WIND

DECEMBER

4

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	*	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	*	1	*	0
<20 & OR <5	0	2	3	*	0
VSBY ≥5	6	51	41	7	0
≥50 & ≥5	6	47	36	1	0
NC & ≥10	6	44	34	1	0

625

5

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	1	1	0
<5 & OR <2	0	*	2	1	0
VSBY <2	0	0	1	1	0
<10 & OR <2	0	2	5	2	*
<20 & OR <5	0	6	15	3	*
VSBY ≥5	1	34	52	7	*
≥50 & ≥5	1	27	35	4	0
NC & ≥10	*	26	30	1	0

307

6

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	*	*	*	*
<5 & OR <2	*	*	2	2	*
VSBY <2	0	*	1	1	*
<10 & OR <2	*	1	7	7	1
<20 & OR <5	*	3	18	13	1
VSBY ≥5	*	11	56	22	1
≥50 & ≥5	*	9	37	11	*
NC & ≥10	*	7	29	6	*

4587

7

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	0	0
<5 & OR <2	0	*	*	*	0
VSBY <2	0	*	*	0	0
<10 & OR <2	*	2	1	*	0
<20 & OR <5	1	6	2	1	0
VSBY ≥5	22	67	10	1	0
≥50 & ≥5	20	60	7	0	0
NC & ≥10	19	58	7	0	0

1277

8

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	*	*	0
<5 & OR <2	*	1	2	*	0
VSBY <2	*	*	1	0	0
<10 & OR <2	1	5	5	1	0
<20 & OR <5	1	11	13	1	0
VSBY ≥5	10	48	36	2	0
≥50 & ≥5	8	36	22	1	0
NC & ≥10	8	33	18	1	0

1338

9

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	*	1	*	0
<5 & OR <2	*	1	3	1	0
VSBY <2	0	*	1	*	0
<10 & OR <2	*	3	11	3	0
<20 & OR <5	1	7	25	5	0
VSBY ≥5	2	27	53	8	*
≥50 & ≥5	2	19	28	4	*
NC & ≥10	1	16	20	2	0

2050

13

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	3	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	6	2	0	0
<20 & OR <5	2	6	6	0	0
VSBY ≥5	21	68	20	0	0
≥50 & ≥5	19	46	12	0	0
NC & ≥10	18	45	12	0	0

126

14

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	4	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	2	6	2	0	0
<20 & OR <5	2	12	2	0	0
VSBY ≥5	27	63	20	0	0
≥50 & ≥5	24	35	12	0	0
NC & ≥10	24	33	12	0	0

49

15

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	6	6	6	0	0
<20 & OR <5	8	15	10	0	0
VSBY ≥5	31	46	15	2	0
≥50 & ≥5	23	33	6	0	0
NC & ≥10	21	31	4	0	0

52

16

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	2	*	*	0
VSBY <2	0	0	*	0	0
<10 & OR <2	*	6	3	2	0
<20 & OR <5	*	12	6	2	0
VSBY ≥5	8	61	27	2	0
≥50 & ≥5	7	47	19	*	0
NC & ≥10	7	44	17	*	0

266

17

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	1	1	0	0
VSBY <2	0	0	*	0	0
<10 & OR <2	0	1	8	2	0
<20 & OR <5	0	4	16	4	0
VSBY ≥5	0	30	62	4	0
≥50 & ≥5	0	23	40	1	0
NC & ≥10	0	21	36	*	0

207

18

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	1	0	0
<5 & OR <2	0	0	3	0	0
VSBY <2	0	0	1	0	0
<10 & OR <2	0	1	4	1	0
<20 & OR <5	0	3	10	2	0
VSBY ≥5	4	33	57	4	0
≥50 & ≥5	4	24	38	2	0
NC & ≥10	4	22	36	2	0

138

22

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	3	3	0	0	0
VSBY <2	3	0	0	0	0
<10 & OR <2	3	6	0	3	0
<20 & OR <5	8	10	0	3	3
VSBY ≥5	21	46	26	3	3
≥50 & ≥5	15	36	21	0	0
NC & ≥10	13	33	21	0	0

39

23

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	*	0	0
<5 & OR <2	0	*	1	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	*	4	2	1	0
<20 & OR <5	1	9	5	1	0
VSBY ≥5	14	65	28	2	0
≥50 & ≥5	13	44	21	1	0
NC & ≥10	13	42	20	1	0

658

24

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	3	0	0
VSBY <2	0	0	3	0	0
<10 & OR <2	3	3	13	0	0
<20 & OR <5	3	11	21	0	0
VSBY ≥5	5	39	50	0	0
≥50 & ≥5	3	29	32	0	0
NC & ≥10	3	29	32	0	0

38

25

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	2	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	12	0	0
<20 & OR <5	2	2	21	0	0
VSBY ≥5	3	30	62	3	2
≥50 & ≥5	2	17	33	3	2
NC & ≥10	2	17	33	3	2

66

26

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	1	2	0	0
<20 & OR <5	0	3	6	3	0
VSBY ≥5	0	21	63	16	0
≥50 & ≥5	0	10	37	10	0
NC & ≥10	0	8	33	7	0

192

27

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	1	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	4	2	2	0
<20 & OR <5	2	7	8	2	0
VSBY ≥5	9	42	43	6	1
≥50 & ≥5	5	31	31	2	1
NC & ≥10	5	30	31	2	1

184

31

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	1	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	2	3	2	0
<20 & OR <5	1	20	13	7	0
VSBY ≥5	7	46	34	14	0
≥50 & ≥5	2	23	11	5	0
NC & ≥10	2	20	10	3	0

88

32

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	1	0	0	0	0
<5 & OR <2	1	0	*	0	0
VSBY <2	*	0	0	0	0
<10 & OR <2	1	1	3	1	0
<20 & OR <5	1	8	14	3	0
VSBY ≥5	3	35	51	9	1
≥50 & ≥5	2	18	25	5	1
NC & ≥10	2	17	22	5	1

373

33

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	*	1	*	0	0
<5 & OR <2	*	1	*	0	0
VSBY <2	*	1	0	0	0
<10 & OR <2	1	4	4	1	*
<20 & OR <5	2	12	14	3	1
VSBY ≥5	5	38	44	8	*
≥50 & ≥5	3	19	23	5	0
NC & ≥10	3	17	19	4	0

852

34

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	*	*	0
VSBY <2	0	0	*	*	0
<10 & OR <2	0	2	5	2	*
<20 & OR <5	1	9	18	4	*
VSBY ≥5	5	33	50	9	0
≥50 & ≥5	5	22	28	5	0
NC & ≥10	5	21	27	5	0

329

35

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	1	1	0	0	0
<5 & OR <2	1	2	1	1	0
VSBY <2	0	1	0	0	0
<10 & OR <2	1	8	4	2	0
<20 & OR <5	1	11	9	3	0
VSBY ≥5	7	44	40	5	0
≥50 & ≥5	6	31	28	4	0
NC & ≥10	5	28	24	4	0

190

36

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	0	0	0	0
<5 & OR <2	0	0	0	0	0
VSBY <2	0	0	0	0	0
<10 & OR <2	0	0	0	0	0
<20 & OR <5	0	3	0	14	3
VSBY ≥5	6	22	31	25	5
≥50 & ≥5	3	14	28	8	0
NC & ≥10	3	11	25	8	0

36

40

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
1.5 & OR <.5	0	0	4	8	0
<5 & OR <2	0	0	4	8	0
VSBY <2	0	0	4	8	0
<10 & OR <2	0	0	8	8	0
<20 & OR <5	0	4	17	13	4
VSBY ≥5	0	8	46	13	13
≥50 & ≥5	0	0	8	4	13
NC & ≥10	0	0	0	4	8

24

41

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	3	0	0	0
<5 & OR <2	0	3	3	0	0
VSBY <2	0	3	3	0	0
<10 & OR <2	0	13	16	3	3
<20 & OR <5	0	28	25	9	3
VSBY ≥5	3	34	41	13	3
≥50 & ≥5	0	3	9	3	0
NC & ≥10	0	0	9	0	0

32

42

INSUFFICIENT DATA

43

WIND SPEED (KNOTS)

LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	2	0	1	0
<5 & OR <2	0	2	3	1	0
VSBY <2	0	2	1	0	0
<10 & OR <2	2	5	6	8	0
<20 & OR <5	2	12	15	19	2
VSBY ≥5	2	27	37	21	3
≥50 & ≥5	0	12	23	5	1
NC & ≥10	0	9	18	5	0

95

44

INSUFFICIENT DATA

45

WIND SPEED (KNOTS)

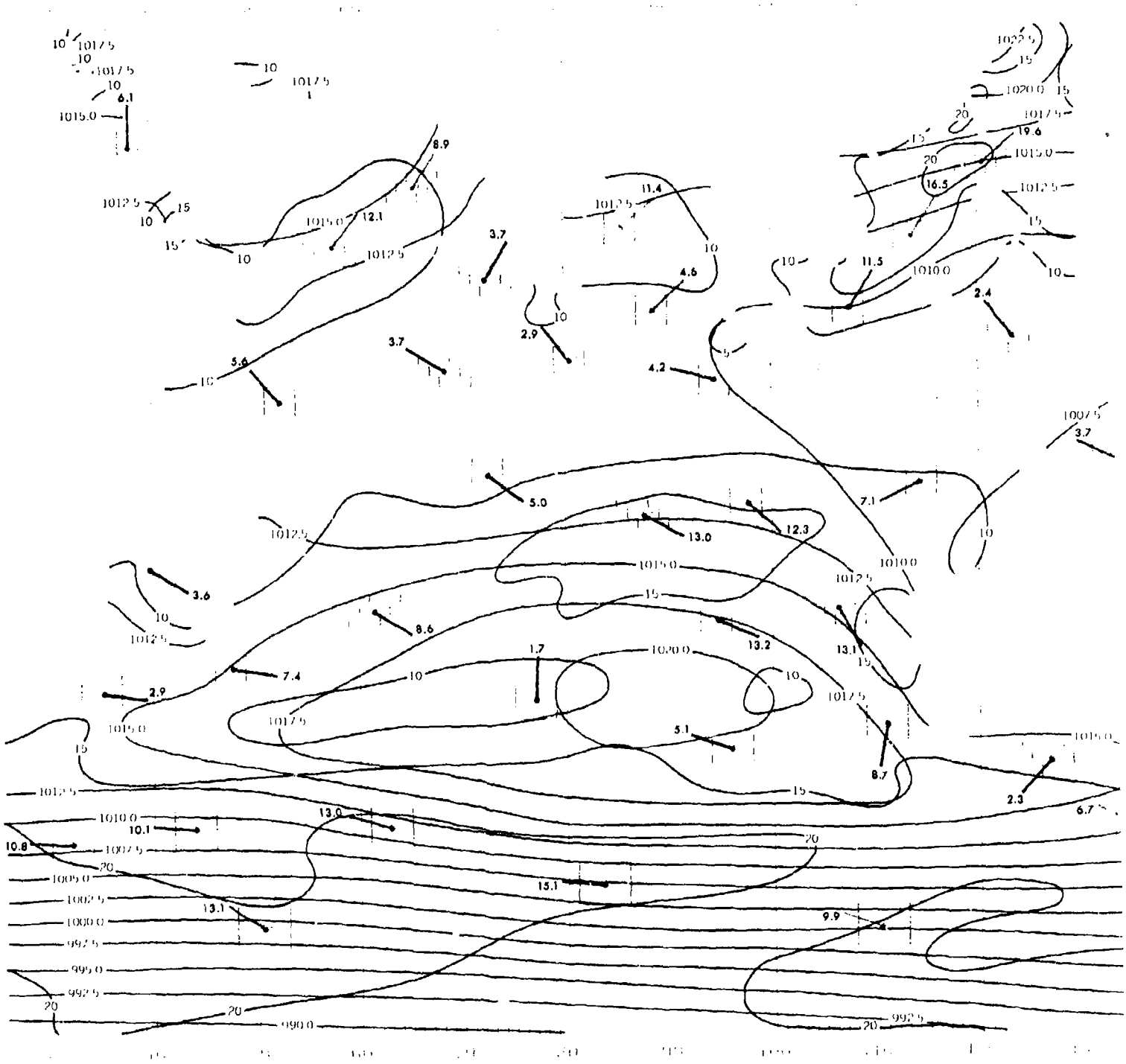
LCC + VSBY	0-3	4-10	11-21	22-33	≥34
<1.5 & OR <.5	0	1	1	1	0
<5 & OR <2	0	1	2	1	0
VSBY <2	0	1	1	1	0
<10 & OR <2	0	1	6	4	1
<20 & OR <5	0	4	26	13	4
VSBY ≥5	0	7	47	30	6
≥50 & ≥5	0	1	12	9	1
NC & ≥10	0	1	9	1	0

138

tive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER

SEA LEVEL PRE



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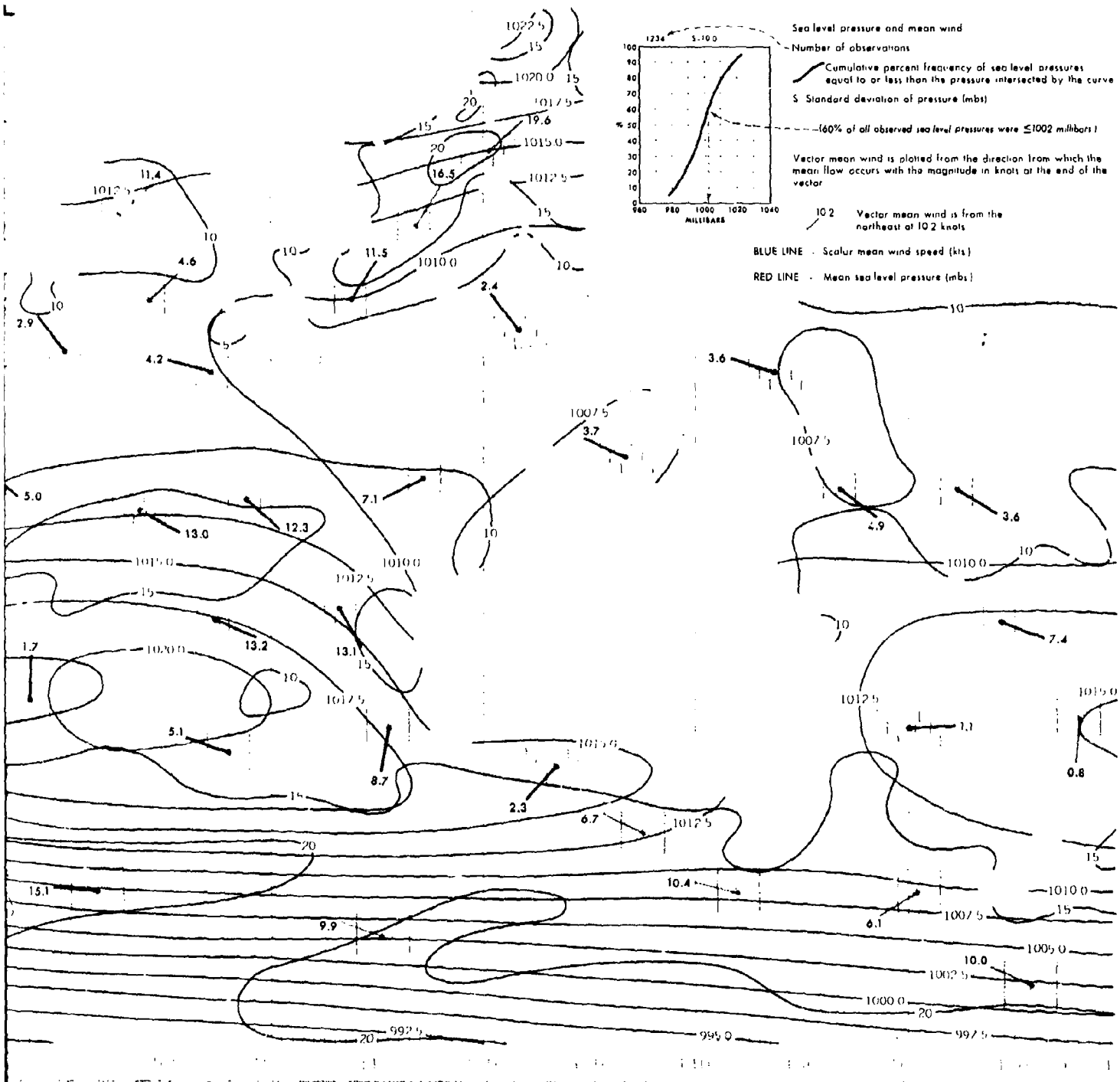
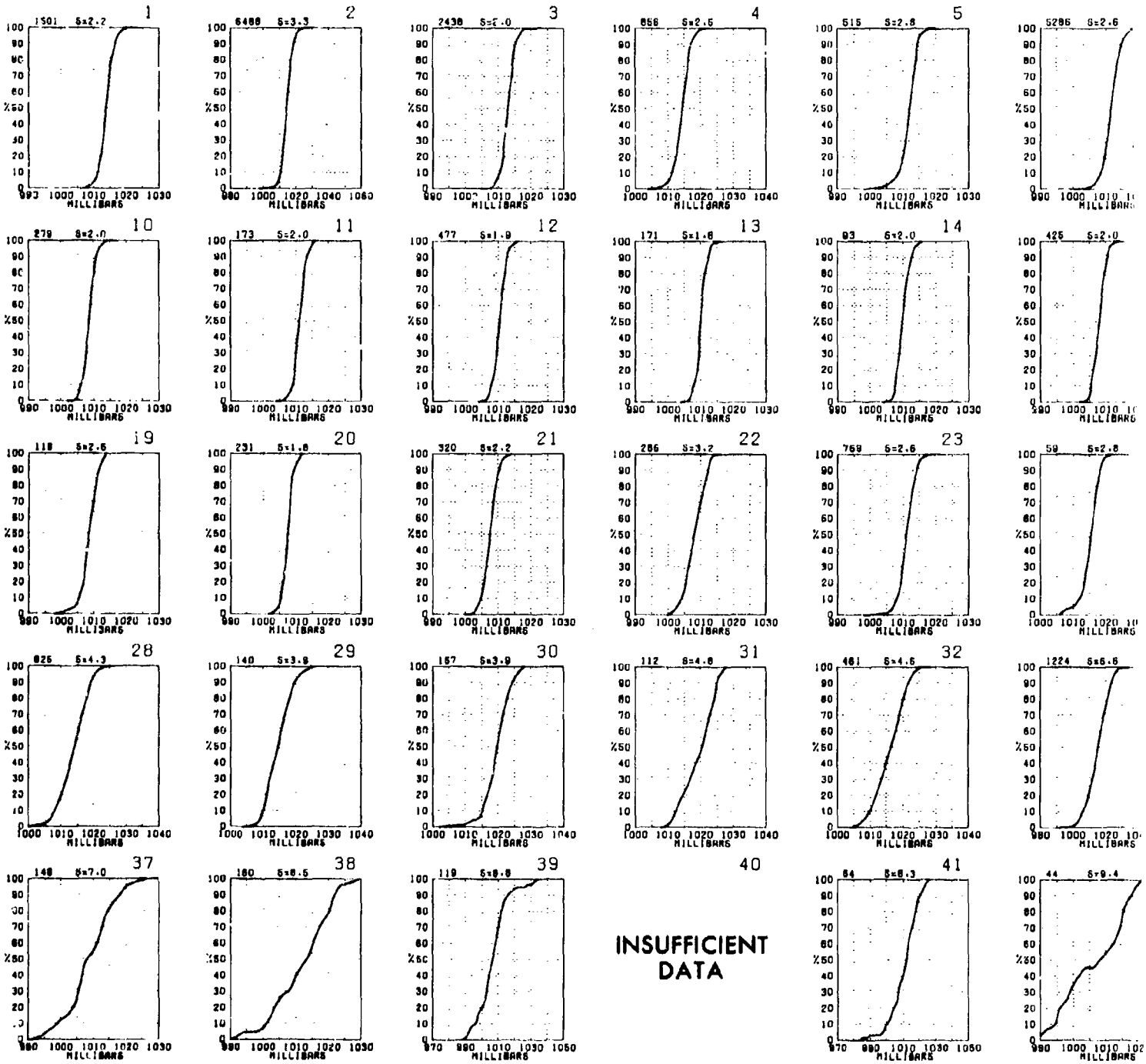
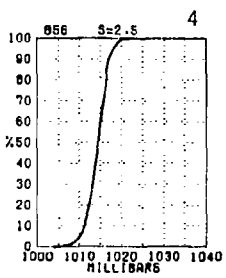


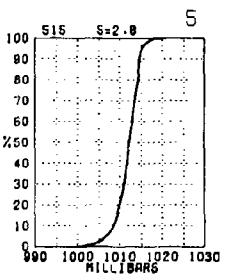
SEA LEVEL PRESSURE

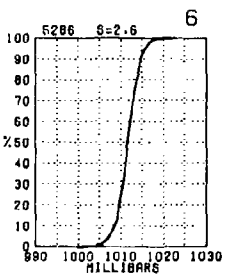


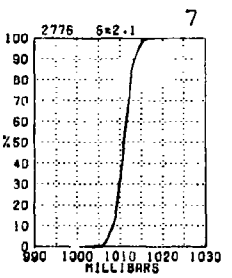
Graphs represent the objective compilation of available data for specified areas with
The isopleth analyses (opposite page) are based on all available data subjectively ac

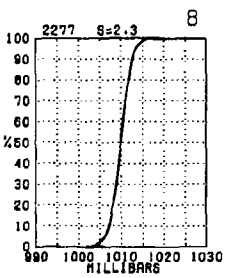
DECEMBER

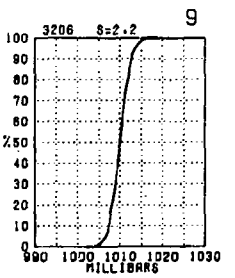


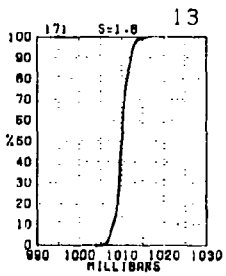


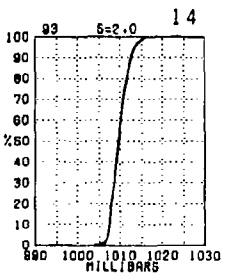


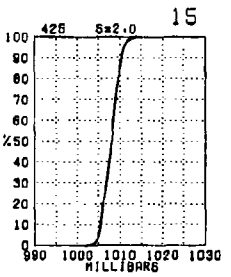


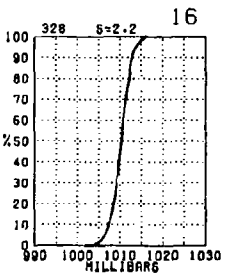


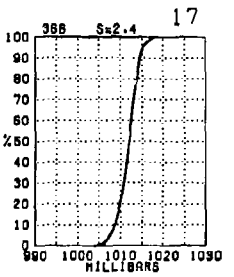


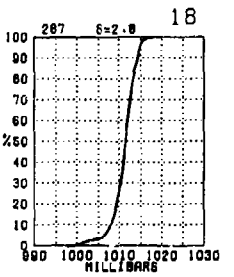


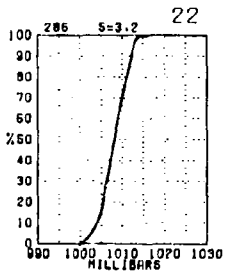


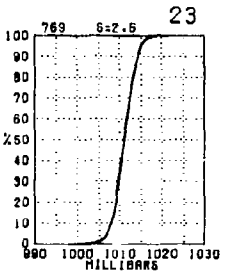


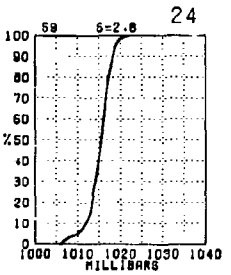


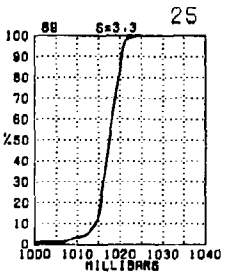


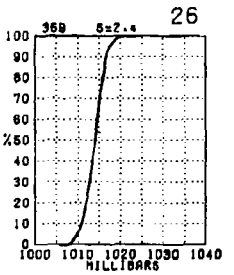


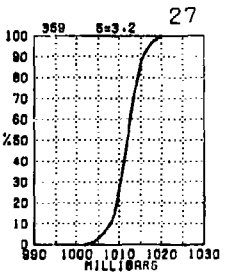


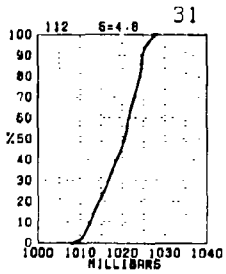


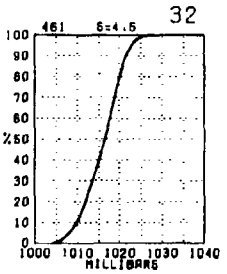


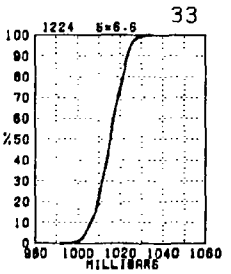


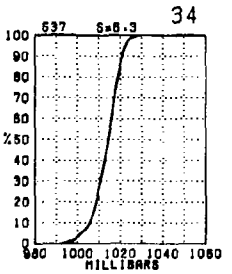


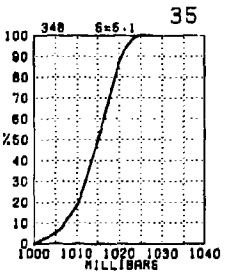


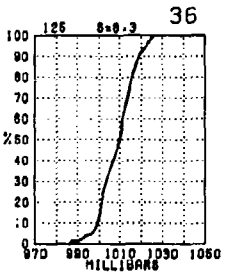






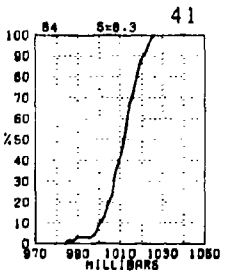


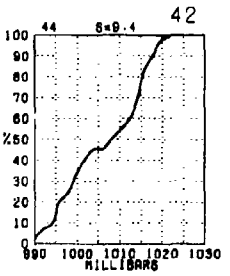


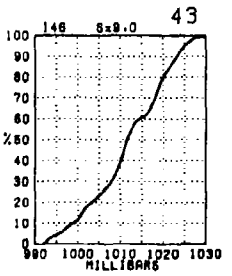


40

INSUFFICIENT DATA

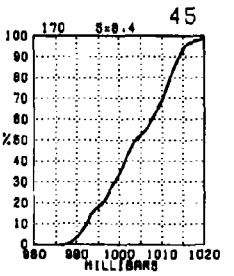






44

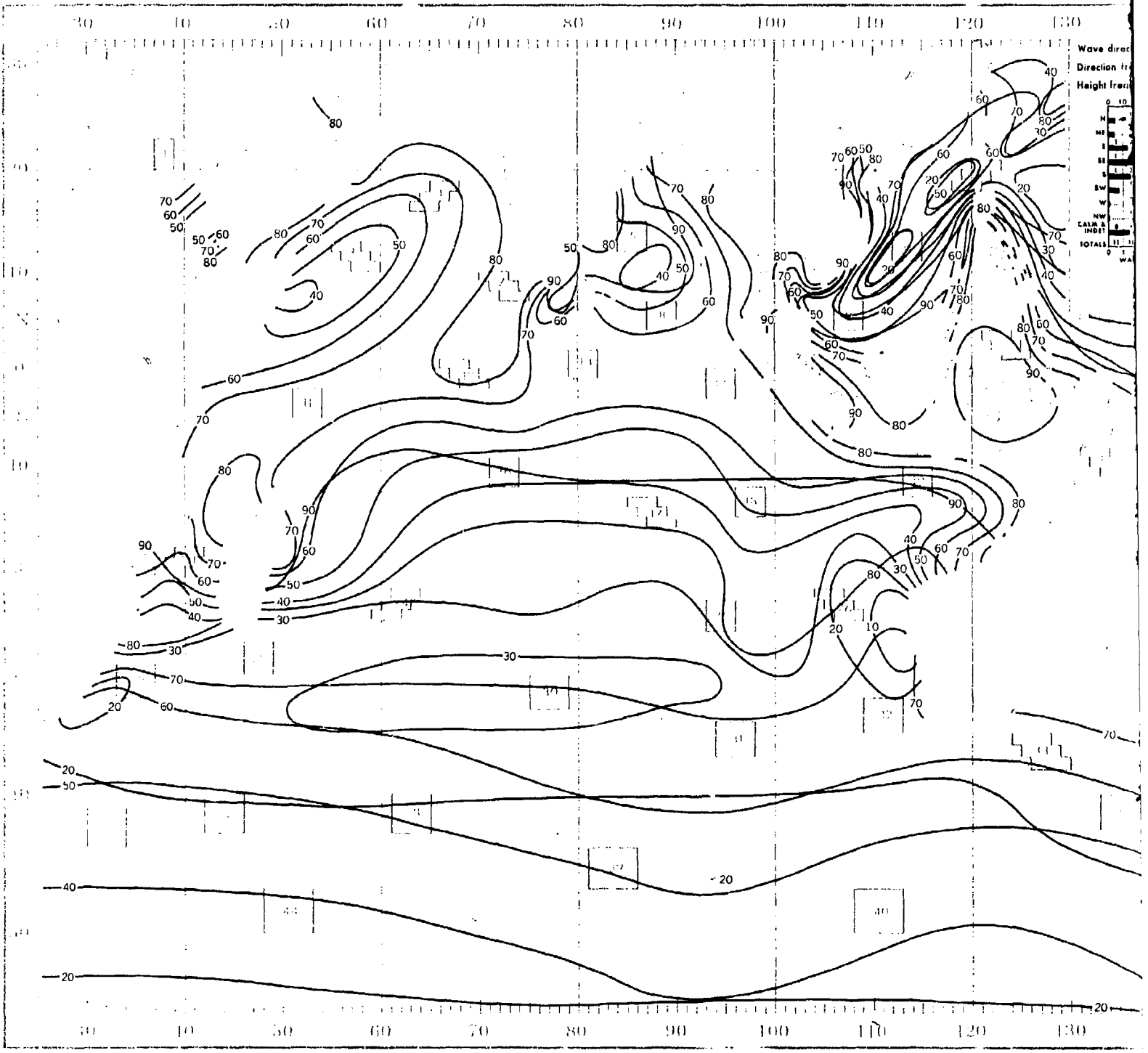
INSUFFICIENT DATA



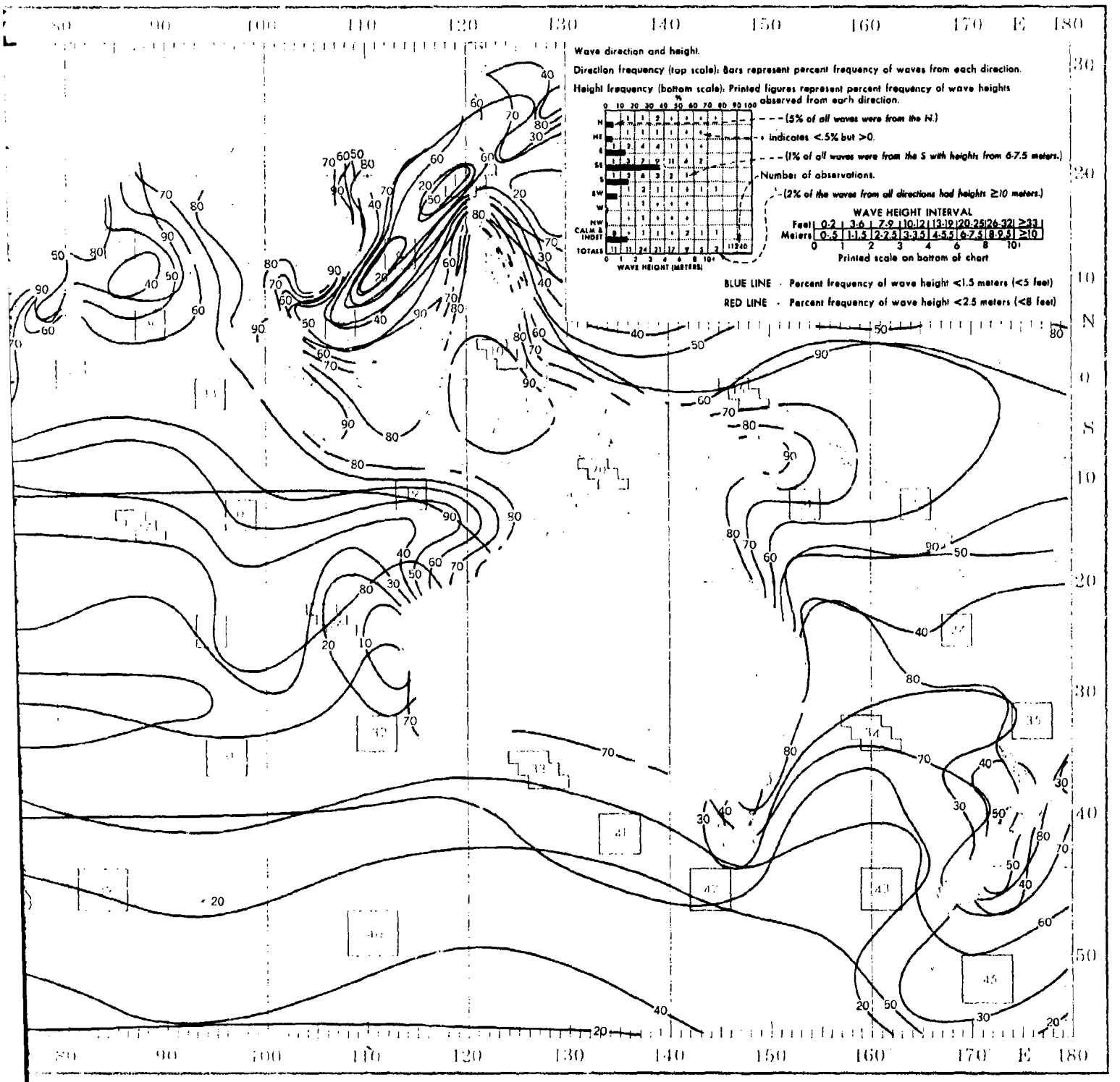
objective compilation of available data for specified areas without regard to suspected biases.
(opposite page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER

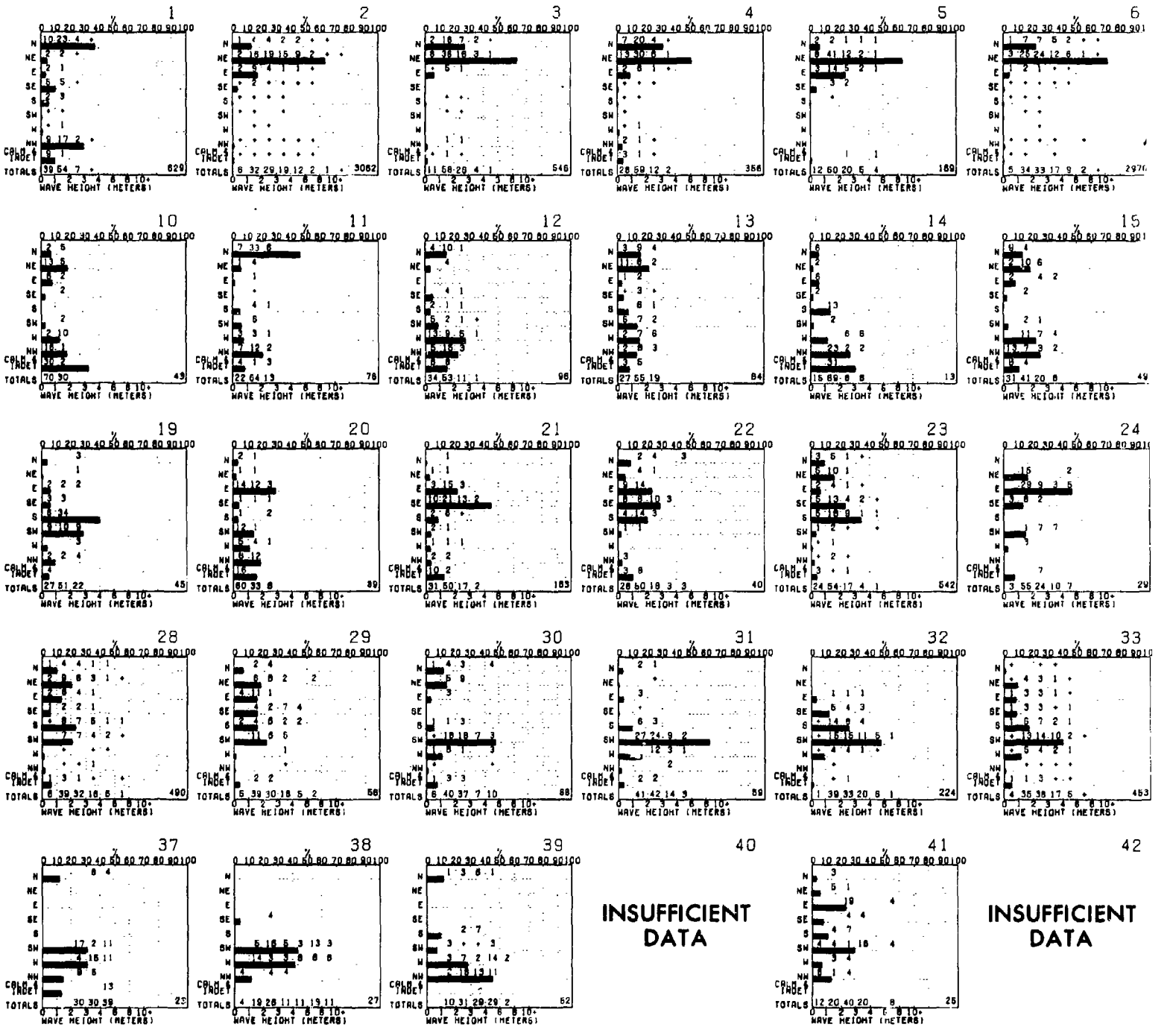
WAVES (



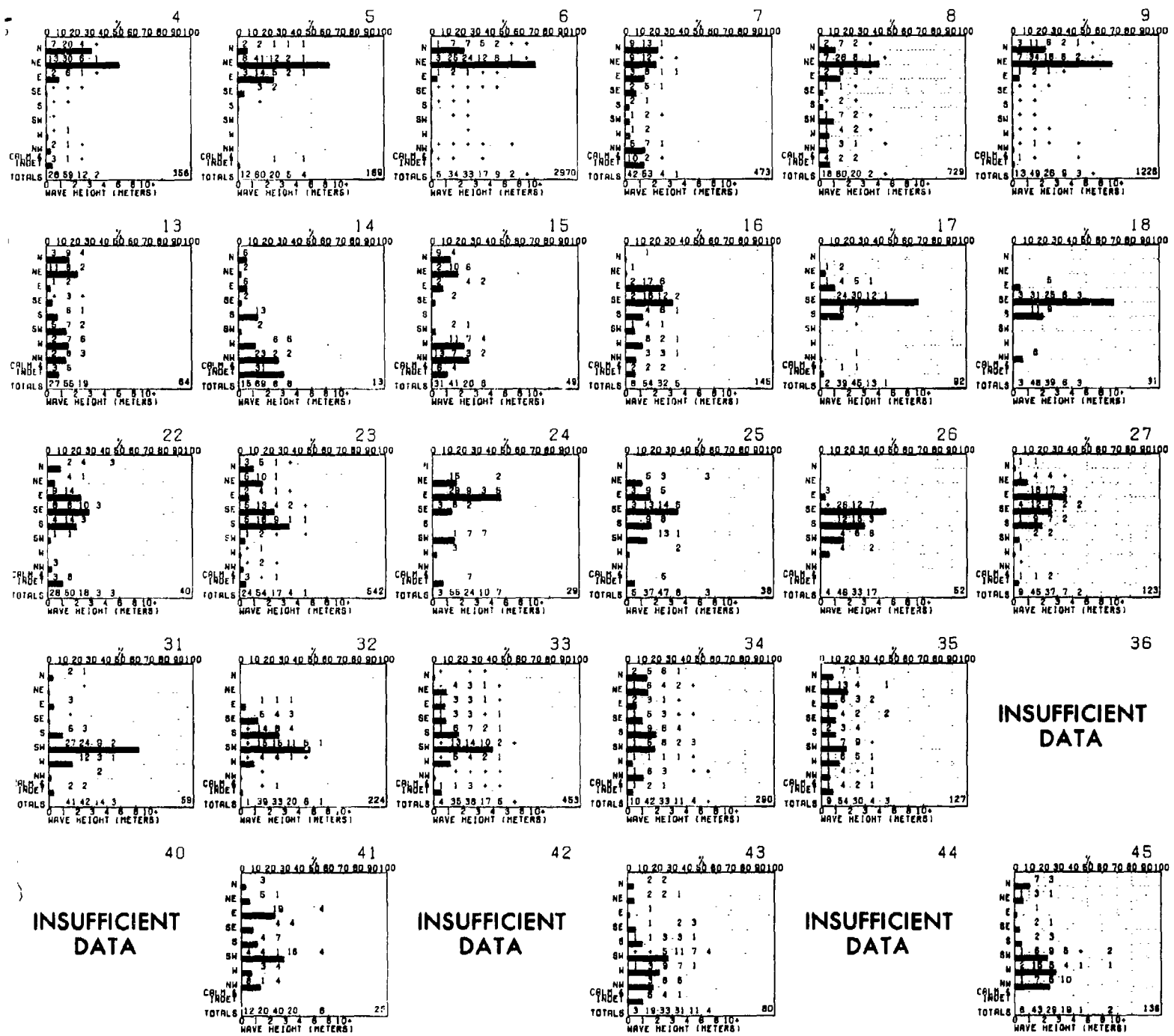
WAVES (<1.5 AND <2.5 METERS)



WAVE DIRECTION AND HEIGHT

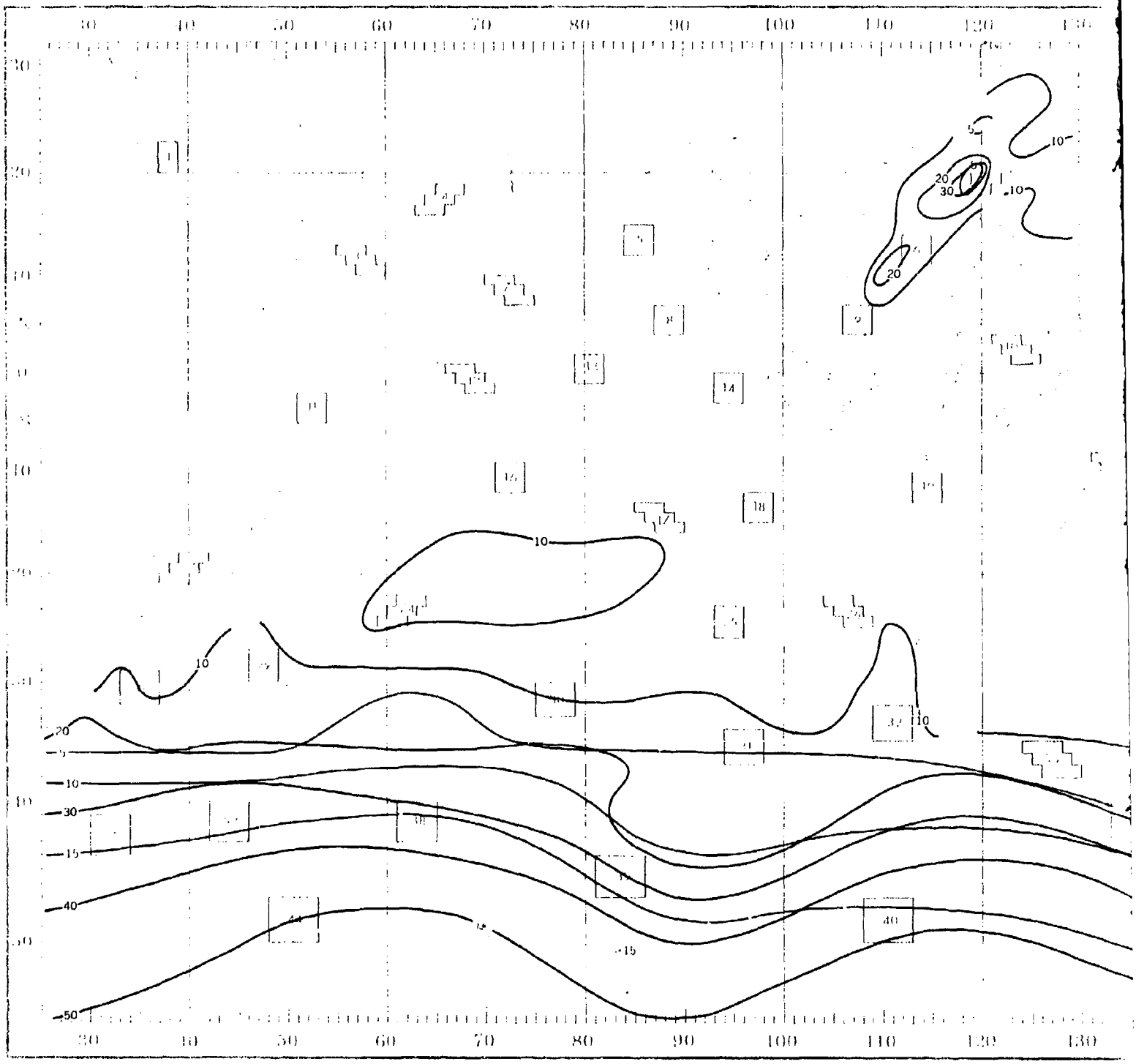


Graphs represent the objective compilation of available data for specified areas without re
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

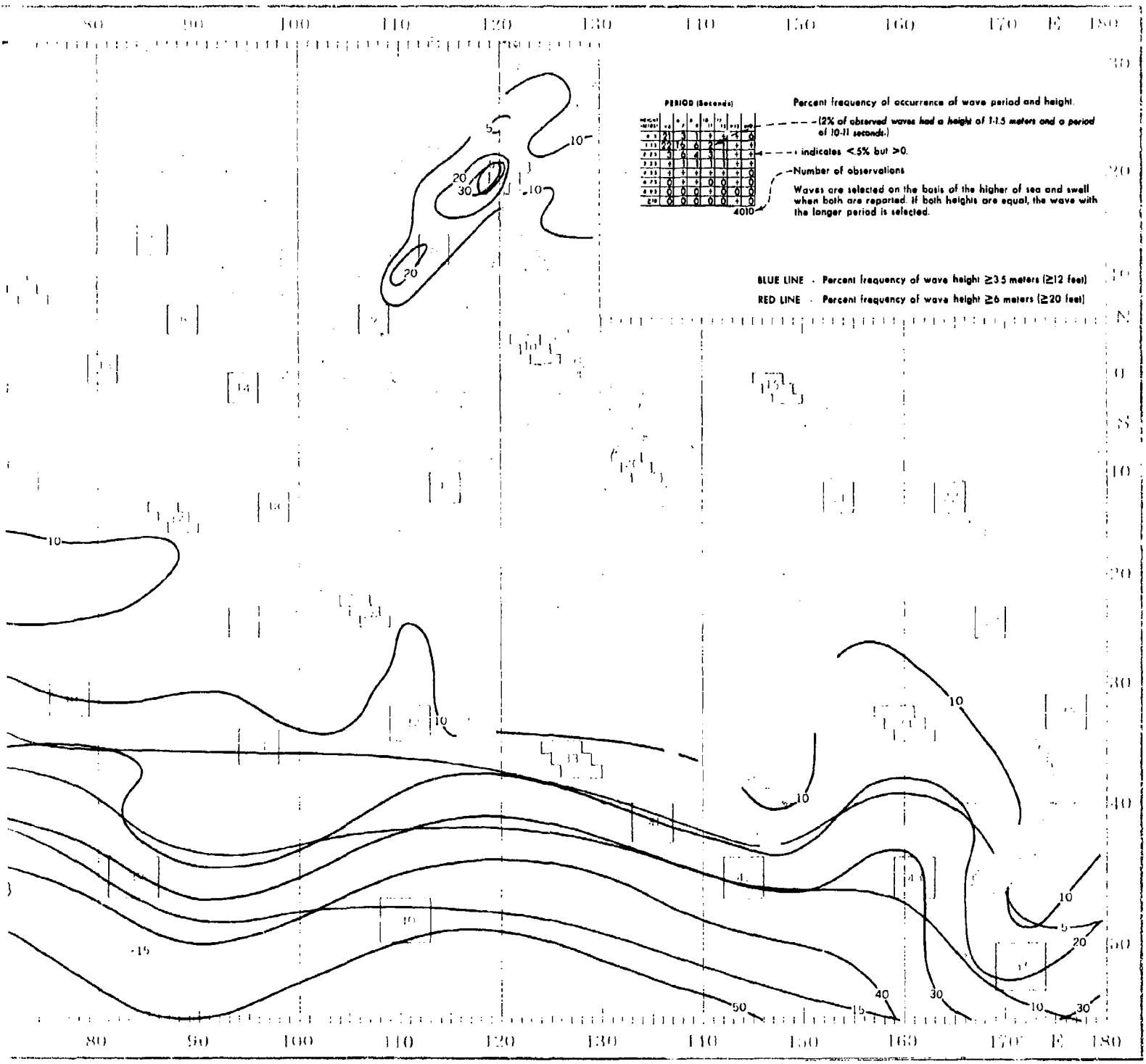


ective compilation of available data for specified areas without regard to suspected biases.
posite page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER WAVES



WAVES (≥3.5 AND ≥6 METERS)



WAVE PERIOD AND HEIGHT

1

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	26	1	0	+	0	0	16
1-1.5	30	13	2	0	+	0	6
2-2.5	1	3	1	0	0	0	1
3-3.5	+	0	+	0	+	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

671

2

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	1	+	0	0	0	+
1-1.5	14	13	3	1	+	0	+
2-2.5	4	9	12	3	1	+	+
3-3.5	1	4	7	4	2	+	+
4-4.5	1	2	3	3	2	1	+
5-7.5	0	+	1	1	+	+	+
8-9.5	0	+	0	+	+	+	+
≥10	0	0	+	0	0	0	0

3078

3

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	9	1	+	0	0	0	4
1-1.5	26	21	3	1	+	0	6
2-2.5	5	11	5	2	+	+	2
3-3.5	+	2	1	1	0	0	0
4-4.5	0	+	+	+	0	+	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

583

4

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	1	+	1	0	0	7
1-1.5	31	18	3	1	+	1	2
2-2.5	2	4	4	1	0	0	1
3-3.5	0	1	+	+	0	0	+
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

376

5

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	12	2	0	0	0	0	2
1-1.5	27	14	7	2	1	1	6
2-2.5	2	12	3	1	0	0	1
3-3.5	0	2	2	2	0	0	0
4-4.5	0	0	0	1	2	0	1
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

177

6

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	+	0	0	0	+
1-1.5	15	14	4	1	+	0	1
2-2.5	4	11	11	5	1	+	+
3-3.5	1	4	8	4	2	1	+
4-4.5	+	1	3	2	1	1	+
5-7.5	0	+	+	1	+	+	0
8-9.5	0	0	0	+	+	0	0
≥10	0	0	0	0	0	0	0

2981

10

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	40	4	4	0	0	0	25
1-1.5	10	5	4	2	2	0	2
2-2.5	0	0	0	0	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

48

11

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	16	1	0	0	0	0	8
1-1.5	30	25	3	1	0	0	3
2-2.5	1	4	6	1	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

79

12

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	2	1	0	0	0	13
1-1.5	12	21	6	2	2	0	7
2-2.5	4	0	6	1	0	0	0
3-3.5	0	0	0	0	0	1	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

105

13

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	3	0	0	0	0	11
1-1.5	11	20	14	5	0	0	5
2-2.5	3	2	6	2	5	2	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

55

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	6	0	0	0	0	6
1-1.5	10	20	6	2	0	0	2
2-2.5	4	8	8	0	0	0	0
3-3.5	0	2	6	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

50

19

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	19	0	0	4	0	0	6
1-1.5	26	13	11	0	0	0	0
2-2.5	4	2	9	2	4	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

47

20

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	45	2	0	0	0	0	18
1-1.5	19	10	1	0	0	0	0
2-2.5	1	3	2	1	0	0	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

98

21

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	21	4	1	0	0	0	9
1-1.5	22	17	5	0	1	0	2
2-2.5	3	6	7	1	0	0	0
3-3.5	0	1	1	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

172

22

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	3	3	0	0	0	0
1-1.5	15	30	3	0	0	0	3
2-2.5	5	8	5	0	0	0	0
3-3.5	3	0	0	0	0	0	0
4-4.5	0	0	3	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

40

23

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	18	2	1	1	0	0	5
1-1.5	26	12	7	2	1	+	4
2-2.5	2	4	5	2	1	+	1
3-3.5	+	1	1	1	+	+	+
4-4.5	+	+	+	1	0	+	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

589

24

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	0
1-1.5	28	26	0	0	0	0	0
2-2.5	0	3	10	0	3	0	7
3-3.5	0	3	0	0	0	0	7
4-4.5	0	0	7	0	0	0	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

29

28

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	+	0	+	0	0	2
1-1.5	12	10	6	1	1	0	7
2-2.5	4	11	12	2	1	1	1
3-3.5	3	4	6	1	0	1	1
4-4.5	+	+	3	1	1	0	0
5-7.5	0	+	0	+	+	+	+
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

493

29

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	0	0	0	0	0
1-1.5	13	9	11	4	2	0	2
2-2.5	2	16	4	2	4	2	2
3-3.5	0	16	0	2	0	0	0
4-4.5	0	4	0	0	2	0	0
5-7.5	0	0	0	2	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

56

30

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	1
1-1.5	13	10	7	3	3	0	3
2-2.5	4	10	10	0	6	1	4
3-3.5	0	4	1	0	1	0	0
4-4.5	1	0	3	1	1	3	0
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

88

31

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	14	17	7	3	0	0	0
2-2.5	2	20	8	2	3	2	5
3-3.5	2	2	7	2	0	0	2
4-4.5	0	0	0	0	2	0	2
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

69

32

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	0	0	0	0	0
1-1.5	8	13	10	4	+	0	4
2-2.5	1	14	10	3	3	2	1
3-3.5	1	6	8	6	0	0	+
4-4.5	0	1	1	1	2	+	0
5-7.5	0	+	0	0	+	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

224

33

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	+	+	0	0	0	1
1-1.5	8	14	6	4	1	+	2
2-2.5	2	12	11	8	2	+	1
3-3.5	1	4	4	4	2	2	1
4-4.5	0	2	+	1	2	0	+
5-7.5	0	0	+	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

453

37

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	0	0	0	0	0	0
2-2.5	0	0	4	26	0	0	0
3-3.5	0	4	13	13	0	0	0
4-4.5	0	17	0	9	0	0	13
5-7.5	0	0	0	0	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

23

38

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	7	7	0	0	0	4	0
2-2.5	4	7	0	0	7	0	7
3-3.5	0	0	7	0	0	4	0
4-4.5	0	0	0	7	0	4	0
5-7.5	0	0	0	0	11	7	0
8-9.5	0	0	0	0	7	4	0
≥10	0	0	0	0	0	0	0

27

39

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	2	2	6	0	0	0	0
2-2.5	0	4	15	10	2	0	0
3-3.5	0	2	0	10	17	0	0
4-4.5	0	0	6	0	8	17	0
5-7.5	0	0	0	0	2	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

52

40

INSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (METRES)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	4	0	0	0
1-1.5	0	16	4	0	0	0	0
2-2.5	0	16	16	8	0	0	0
3-3.5	0	0	12	8	0	0	0
4-4.5	0	0	0	0	0	0	0
5-7.5	0	0	4	4	0	0	0
8-9.5	0	0	0	0	0	0	0
≥10	0	0	0	0	0	0	0

25

42

INSUFFICIENT DATA

Graphs represent the objective compilation of available data for specified areas without r
The isopleth analyses (opposite page) are based on all available data subjectively adjuste

DECEMBER

4

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	1	*	1	0	0	7
1-1.5	31	18	3	1	*	1	2
2-2.5	2	4	4	1	0	0	1
3-3.5	0	1	*	*	0	0	*
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

379

5

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	12	2	0	0	0	0	2
1-1.5	27	14	7	2	1	1	6
2-2.5	2	12	3	1	0	0	1
3-3.5	0	2	2	2	0	0	0
4-4.5	0	0	0	1	2	0	1
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

177

6

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	1	*	0	0	0	*
1-1.5	15	14	4	1	*	0	1
2-2.5	4	11	11	5	1	*	*
3-3.5	1	4	6	4	2	1	*
4-4.5	*	1	3	2	1	1	*
5-5.5	0	*	*	1	*	*	0
6-6.5	0	0	0	*	*	0	0
>10	0	0	0	0	0	0	0

298

7

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	30	2	1	*	0	0	15
1-1.5	22	15	3	2	1	0	5
2-2.5	*	1	2	*	*	0	*
3-3.5	0	1	0	0	*	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

530

8

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	1	1	*	0	0	6
1-1.5	25	20	7	1	1	0	4
2-2.5	2	7	6	2	*	*	2
3-3.5	*	*	1	*	*	0	0
4-4.5	0	*	0	*	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

769

9

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	11	1	0	*	0	0	3
1-1.5	20	19	5	1	*	*	2
2-2.5	4	7	8	4	1	*	1
3-3.5	*	2	3	2	*	*	*
4-4.5	0	1	1	*	*	*	*
5-5.5	0	0	*	0	0	*	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

1258

13

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	14	3	0	0	0	0	11
1-1.5	11	20	14	5	0	0	5
2-2.5	3	2	6	2	5	2	0
3-3.5	0	0	0	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

65

14

INSUFFICIENT DATA

15

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	20	6	0	0	0	0	6
1-1.5	10	20	6	2	0	0	2
2-2.5	4	8	8	0	0	0	0
3-3.5	0	2	6	0	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

50

16

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	1	0	0	2
1-1.5	15	26	4	1	0	0	8
2-2.5	1	10	11	3	4	0	4
3-3.5	0	1	0	3	1	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

146

17

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	0	0	0	0	1
1-1.5	10	13	3	7	1	0	5
2-2.5	5	14	17	5	0	0	2
3-3.5	0	3	4	1	3	0	1
4-4.5	0	0	0	1	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

92

18

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	3	0	0	0	0	0
1-1.5	3	23	13	6	0	3	0
2-2.5	0	13	10	6	10	0	0
3-3.5	0	3	3	0	0	0	0
4-4.5	0	3	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

31

22

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	23	3	3	0	0	0	0
1-1.5	15	30	3	0	0	0	3
2-2.5	5	8	5	0	0	0	0
3-3.5	3	0	0	0	0	0	0
4-4.5	0	0	3	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

40

23

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	18	2	1	1	0	0	6
1-1.5	26	12	7	2	1	*	4
2-2.5	2	4	5	2	1	*	1
3-3.5	*	1	1	1	*	*	*
4-4.5	*	*	*	1	0	*	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

569

24

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	0	0	0	0	0	0
1-1.5	28	28	0	0	0	0	0
2-2.5	0	3	10	0	3	0	7
3-3.5	0	3	0	0	0	0	7
4-4.5	0	0	7	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

29

25

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	5	0	0	0	0	0	0
1-1.5	18	13	5	0	0	0	0
2-2.5	8	3	21	5	0	5	5
3-3.5	0	5	0	3	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	3	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

38

26

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	13	15	17	0	0	0	0
2-2.5	2	10	10	10	2	0	0
3-3.5	10	0	0	0	8	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

52

27

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	0	0	0	1
1-1.5	14	19	6	2	0	2	2
2-2.5	7	14	11	2	0	0	3
3-3.5	0	1	2	2	1	0	2
4-4.5	0	0	2	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

123

31

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	14	17	7	3	0	0	0
2-2.5	2	20	8	2	3	2	5
3-3.5	2	2	7	2	0	0	2
4-4.5	0	0	0	0	2	0	2
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	-
>10	11	0	0	0	0	0	0

59

32

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	1	0	0	0	0	0	0
1-1.5	8	13	10	4	*	0	4
2-2.5	1	14	10	3	3	2	1
3-3.5	1	6	8	5	0	0	*
4-4.5	0	1	1	1	2	*	0
5-5.5	0	*	0	0	*	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

224

33

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	2	*	*	0	0	0	1
1-1.5	8	14	6	4	1	*	2
2-2.5	2	12	11	8	2	*	3
3-3.5	1	4	4	4	2	2	1
4-4.5	0	2	*	1	2	0	*
5-5.5	0	0	*	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

453

34

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	9	*	0	0	0	0	1
1-1.5	13	18	4	2	1	0	2
2-2.5	3	12	10	3	3	4	1
3-3.5	*	4	3	1	1	0	*
4-4.5	1	1	1	1	0	0	0
5-5.5	0	*	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

293

35

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	1	0	0	2
1-1.5	26	13	4	2	4	1	4
2-2.5	4	11	10	2	0	2	1
3-3.5	2	0	2	0	0	0	1
4-4.5	0	0	3	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

129

36

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	0	0	0	0	0	0	0
1-1.5	0	4	17	0	0	0	0
2-2.5	0	0	35	9	0	0	0
3-3.5	0	0	17	4	0	0	0
4-4.5	4	0	0	9	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

23

40

NSUFFICIENT DATA

41

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	8	0	0	4	0	0	0
1-1.5	0	16	4	0	0	0	0
2-2.5	0	16	16	8	0	0	0
3-3.5	0	0	12	8	0	0	0
4-4.5	0	0	0	0	0	0	0
5-5.5	0	0	4	4	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

25

42

INSUFFICIENT DATA

43

PERIOD (SECONDS)

HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	4	0	0	0	0	0	0
1-1.5	7	5	1	0	0	0	5
2-2.5	6	4	19	1	0	0	2
3-3.5	0	12	14	1	2	0	1
4-4.5	0	0	10	1	0	0	0
5-5.5	0	0	2	1	0	0	0
6-6.5	0	0	0	0	0	0	0
>10	0	0	0	0	0	0	0

81

44

INSUFFICIENT DATA

45

PERIOD (SECONDS)

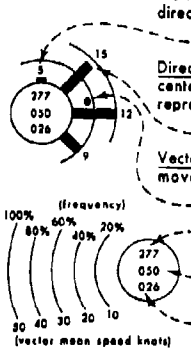
HEIGHT (INTRS)	<6	6-7	8-9	10-11	12-13	>13	IND
0-.5	3	2	0	1	0	0	0
1-1.5	26	8	4	3	1	0	0
2-2.5	12	6	7	2	2	0	0
3-3.5	5	1	7	3	3	1	0
4-4.5	0	0	1	0	0	0	0
5-5.5	0	0	0	0	0	0	0
6-6.5	0	0	0	0	0	2	0
>10	0	0	0	0	0	0	0

136

ive compilation of available data for specified areas without regard to suspected biases.
site page) are based on all available data subjectively adjusted where bias was evident.

DECEMBER

12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).



Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.

(Centers moving toward the N had a mean speed of 5 knots.)

Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.

(35% of all tropical cyclones moved toward the NE.)

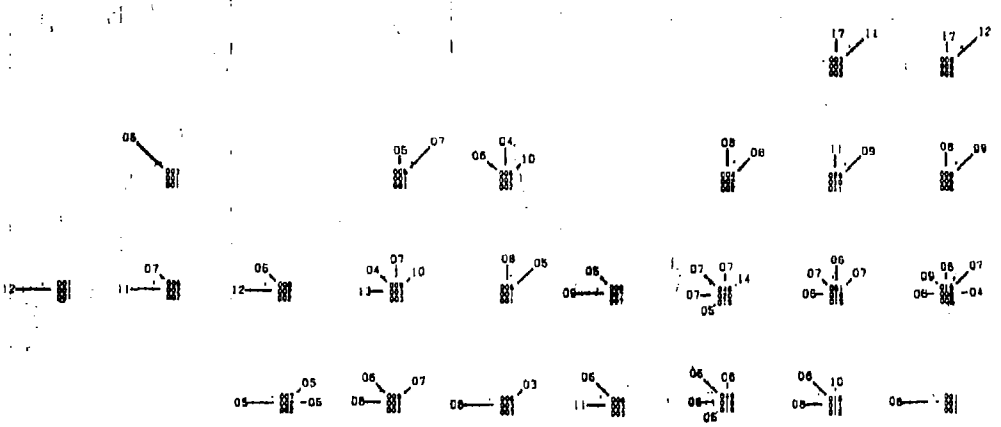
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots.

(Mean vector movement of all centers was toward 75° at 7 knots.)

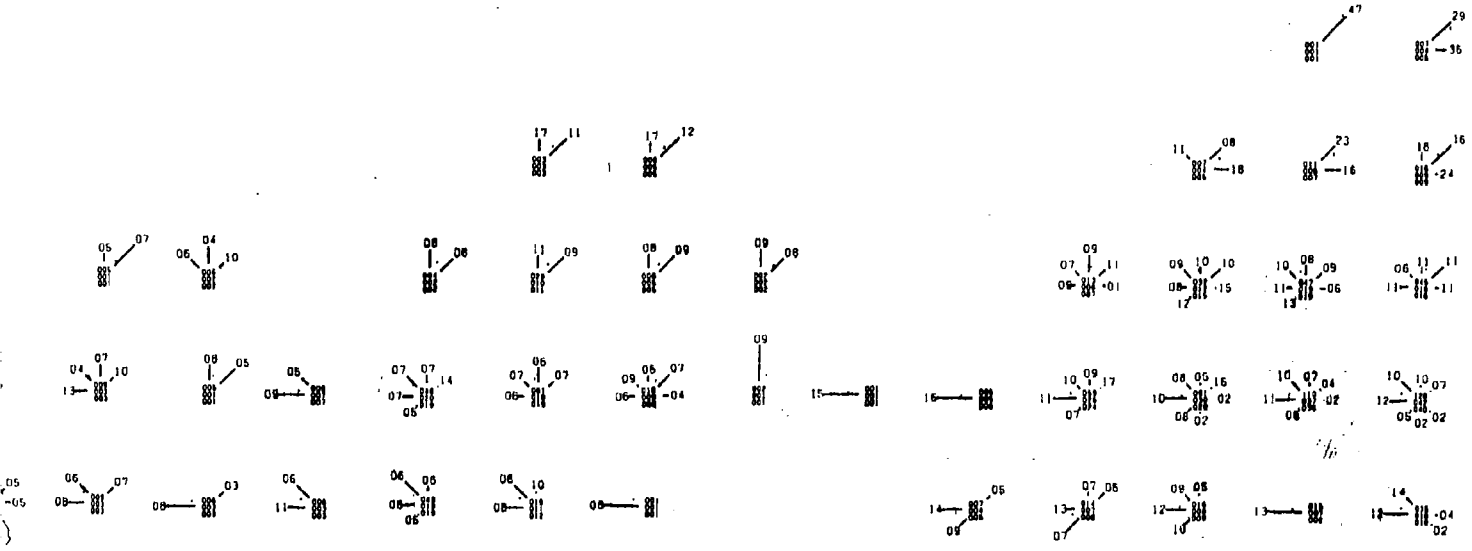
Statistics for this rose are based on 277 twelve hour movements.

50 individual storms were observed in the 5° X 5° area during the period of record.

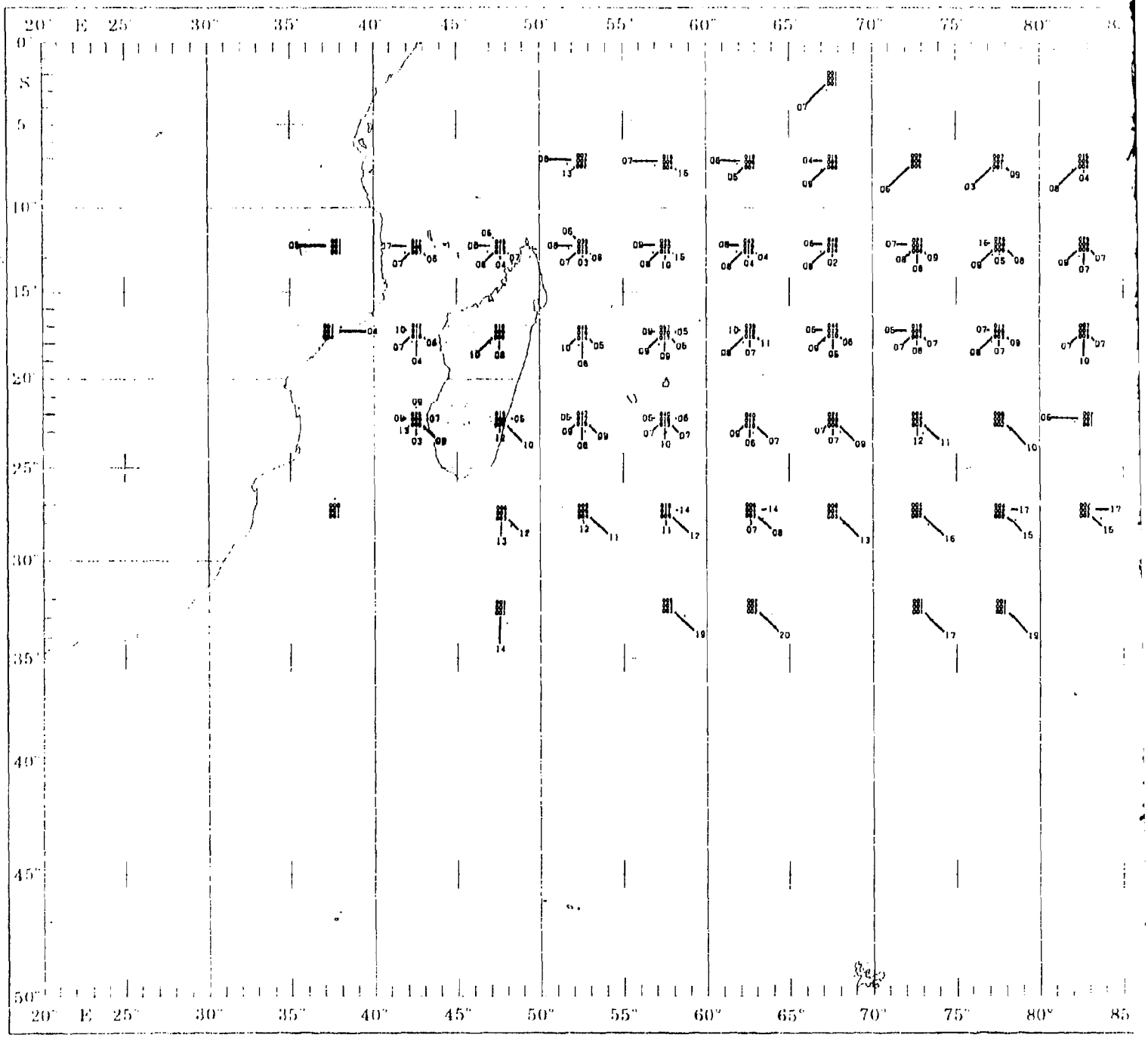
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.



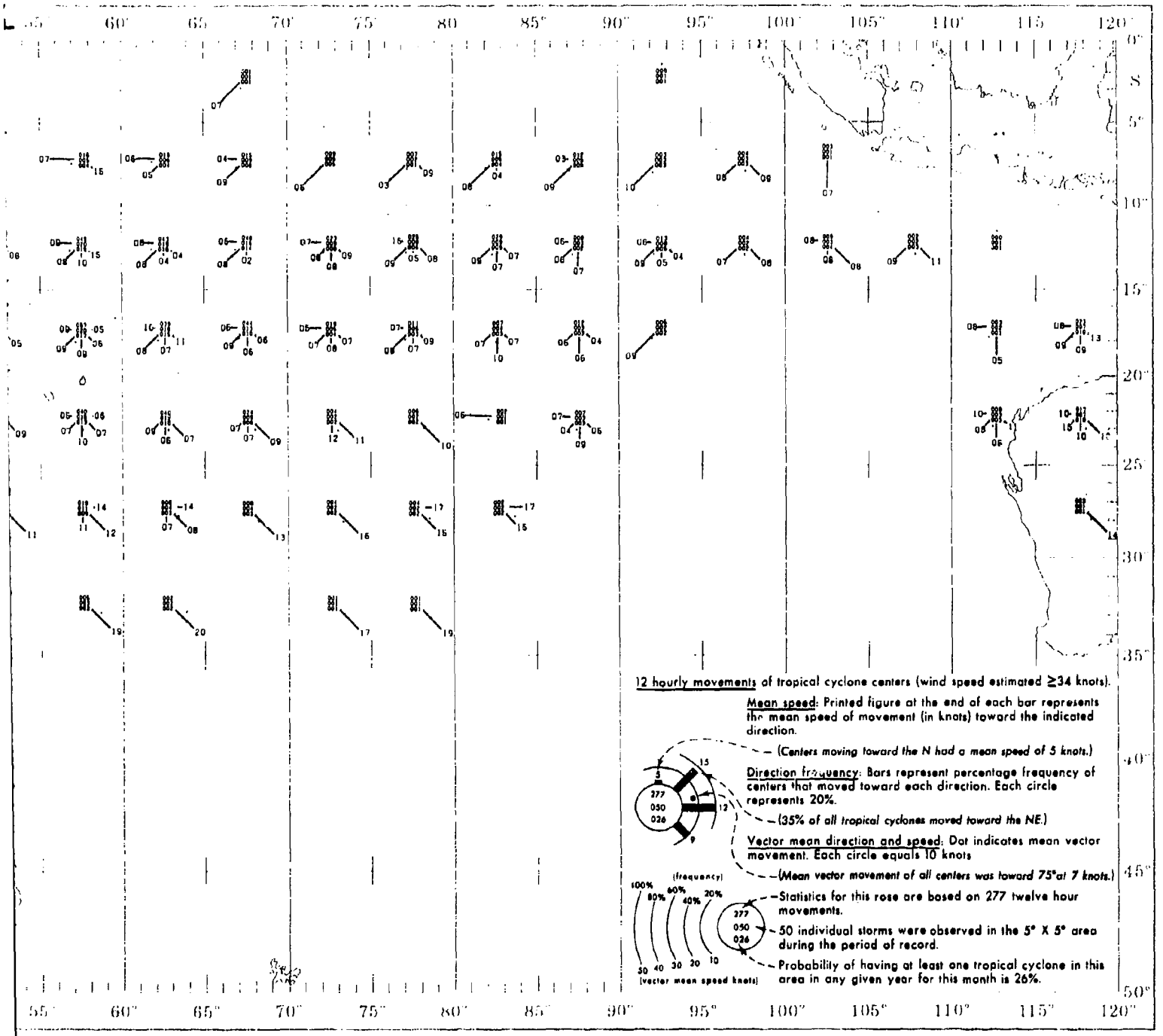
TROPICAL CYCLONE



TROPICAL CYCLONE

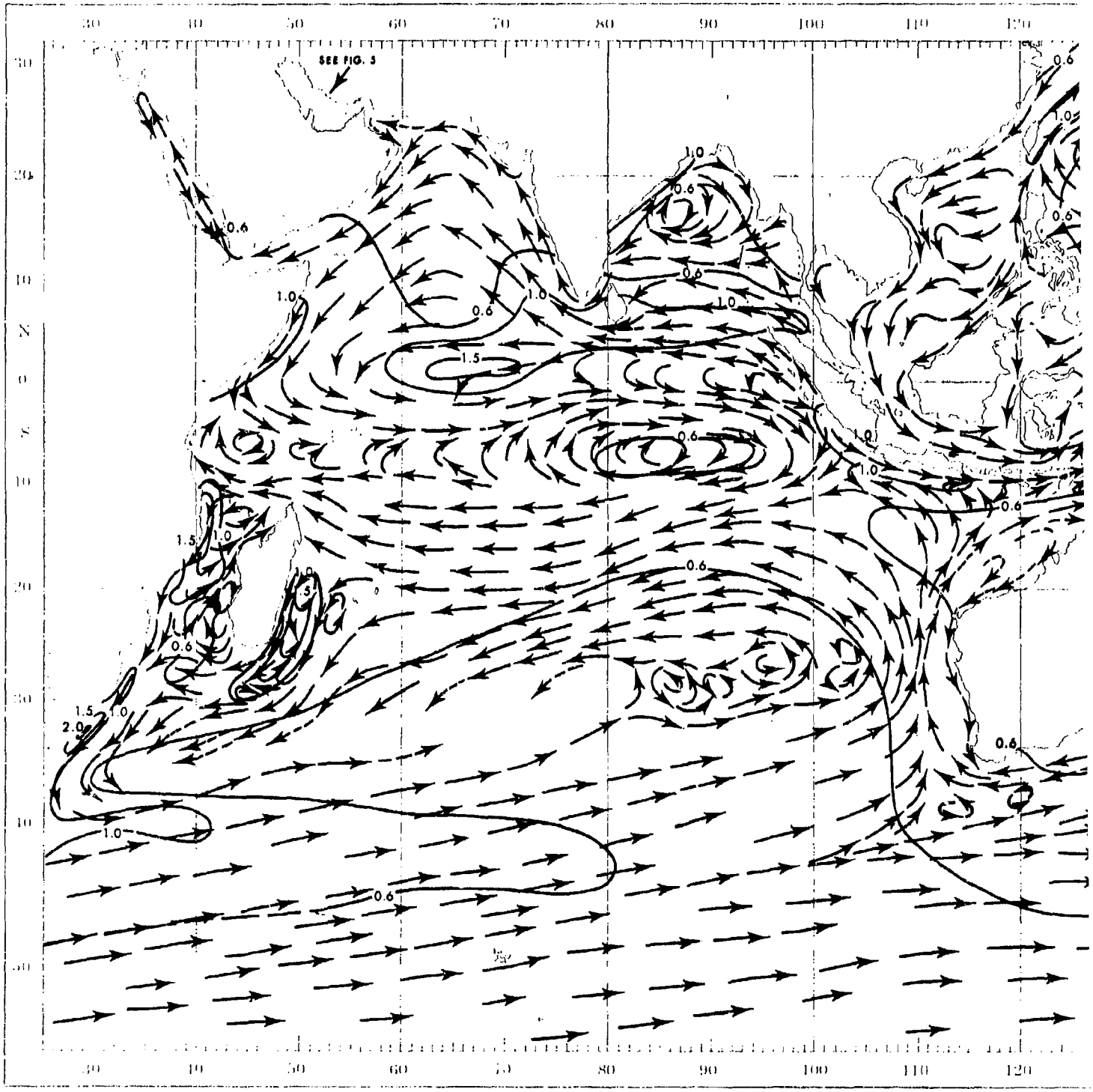


DECEMBER


55° 60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120°
0° 5° 10° 15° 20° 25° 30° 35° 40° 45° 50°
12 hourly movements of tropical cyclone centers (wind speed estimated ≥34 knots).
Mean speed: Printed figure at the end of each bar represents the mean speed of movement (in knots) toward the indicated direction.
(Centers moving toward the N had a mean speed of 5 knots.)
Direction frequency: Bars represent percentage frequency of centers that moved toward each direction. Each circle represents 20%.
277
050
026
(35% of all tropical cyclones moved toward the NE.)
Vector mean direction and speed: Dot indicates mean vector movement. Each circle equals 10 knots
(Mean vector movement of all centers was toward 75° at 7 knots.)
(frequency)
100% 80% 60% 40% 20%
50 40 30 20 10
(vector mean speed knots)
Statistics for this rose are based on 277 twelve hour movements.
50 individual storms were observed in the 5° X 5° area during the period of record.
Probability of having at least one tropical cyclone in this area in any given year for this month is 26%.

PART II OCEANOGRAPHY

FIG. 1 JANUARY (NORTHEAST MONSOON) SURFACE C



EAST MONSOON) SURFACE CURRENTS

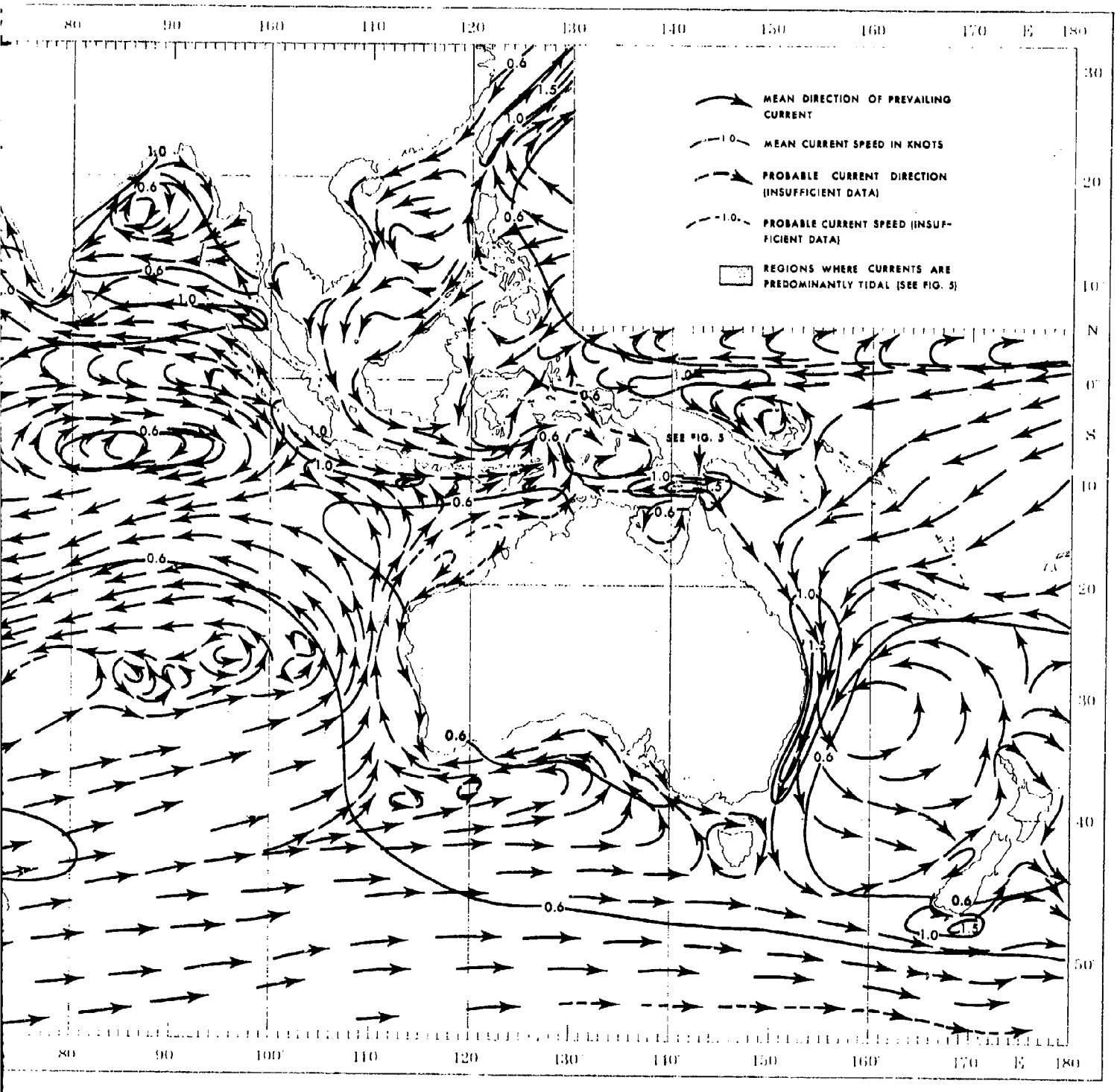
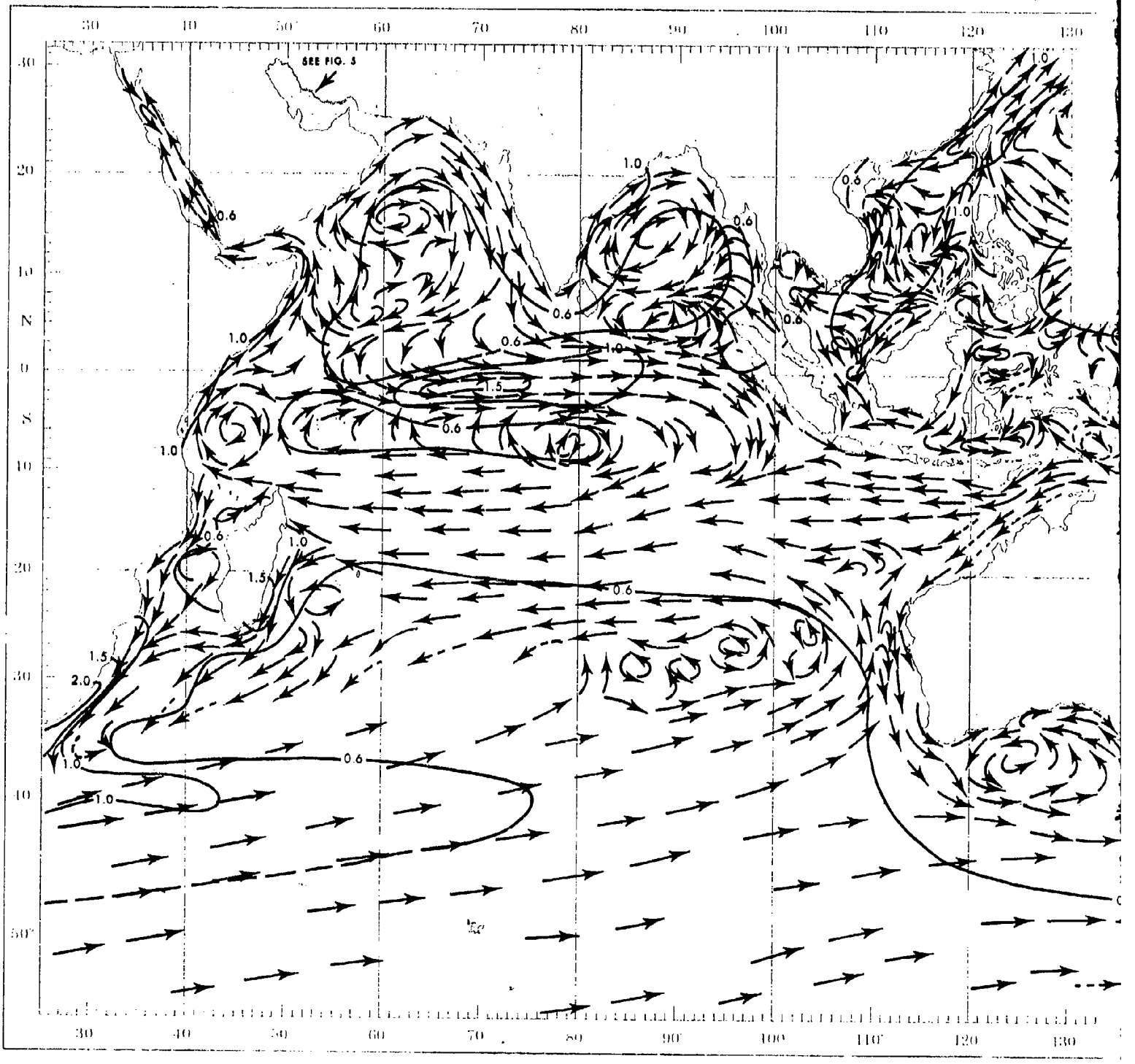


FIG. 2 APRIL (TRANSITION) SURFACE CURRENTS



ɔN) SURFACE CURRENTS

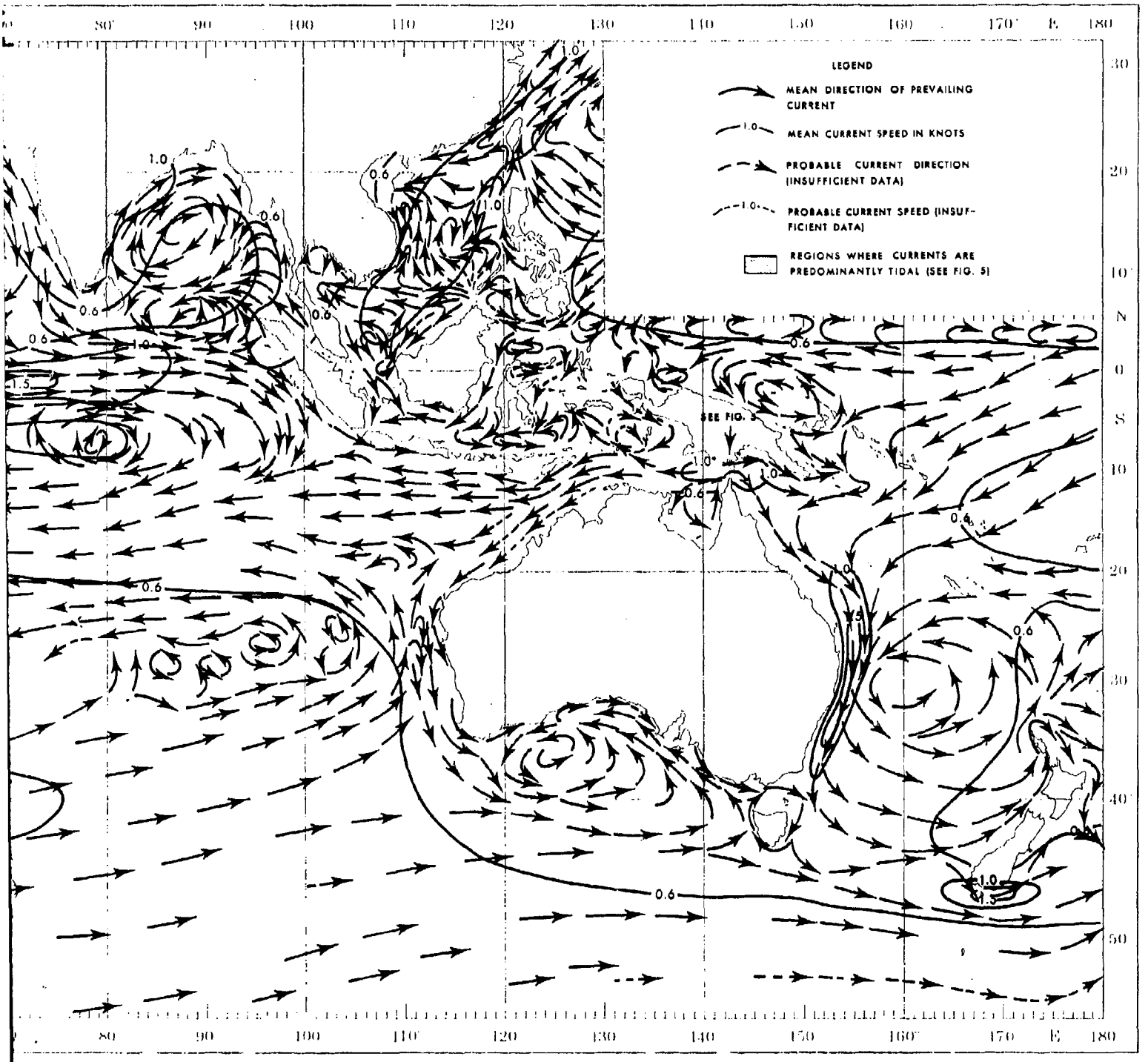
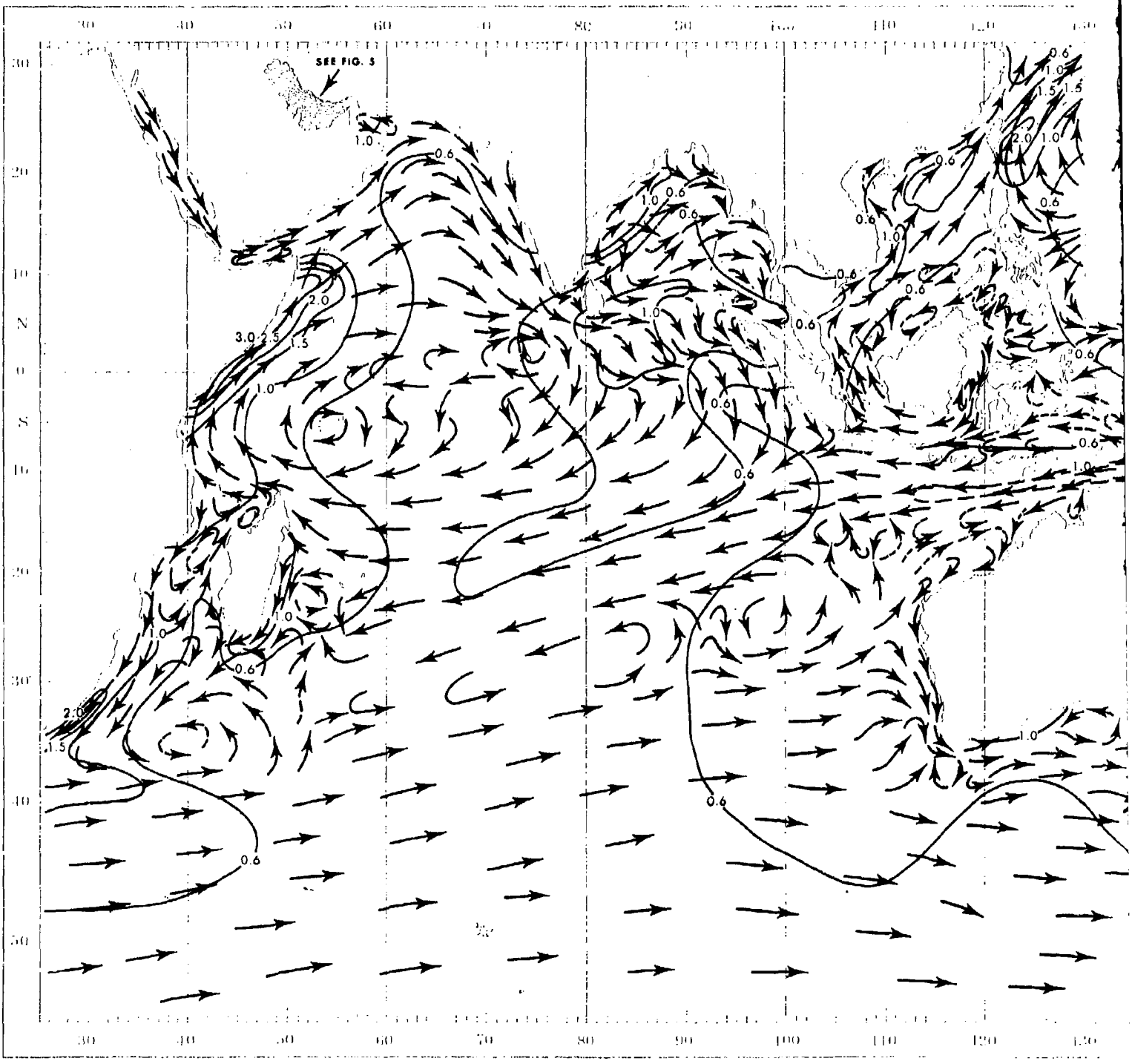


FIG. 3 JULY (SOUTHWEST MONSOON) SURFACE CURRENTS



EST MONSOON) SURFACE CURRENTS

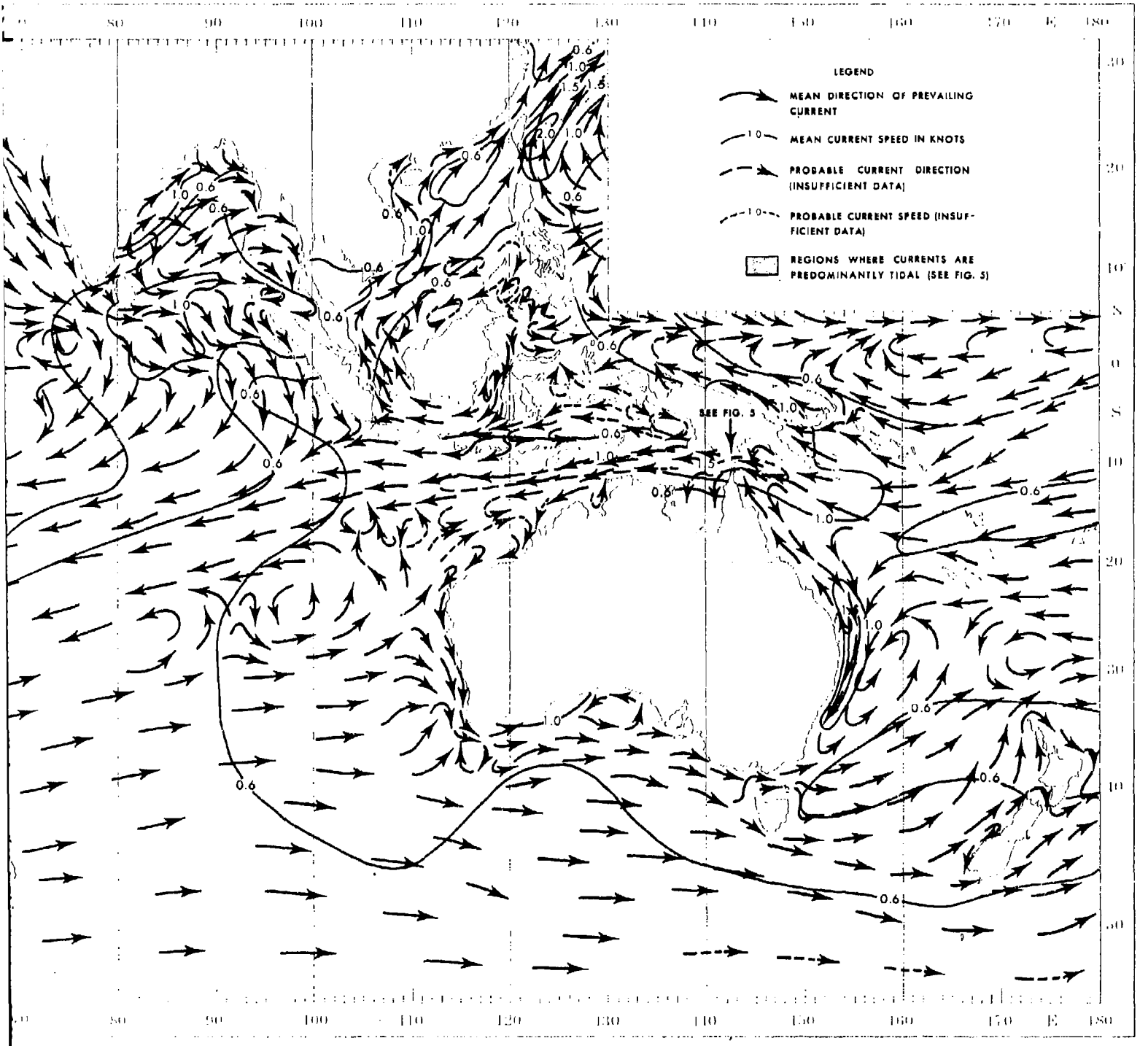
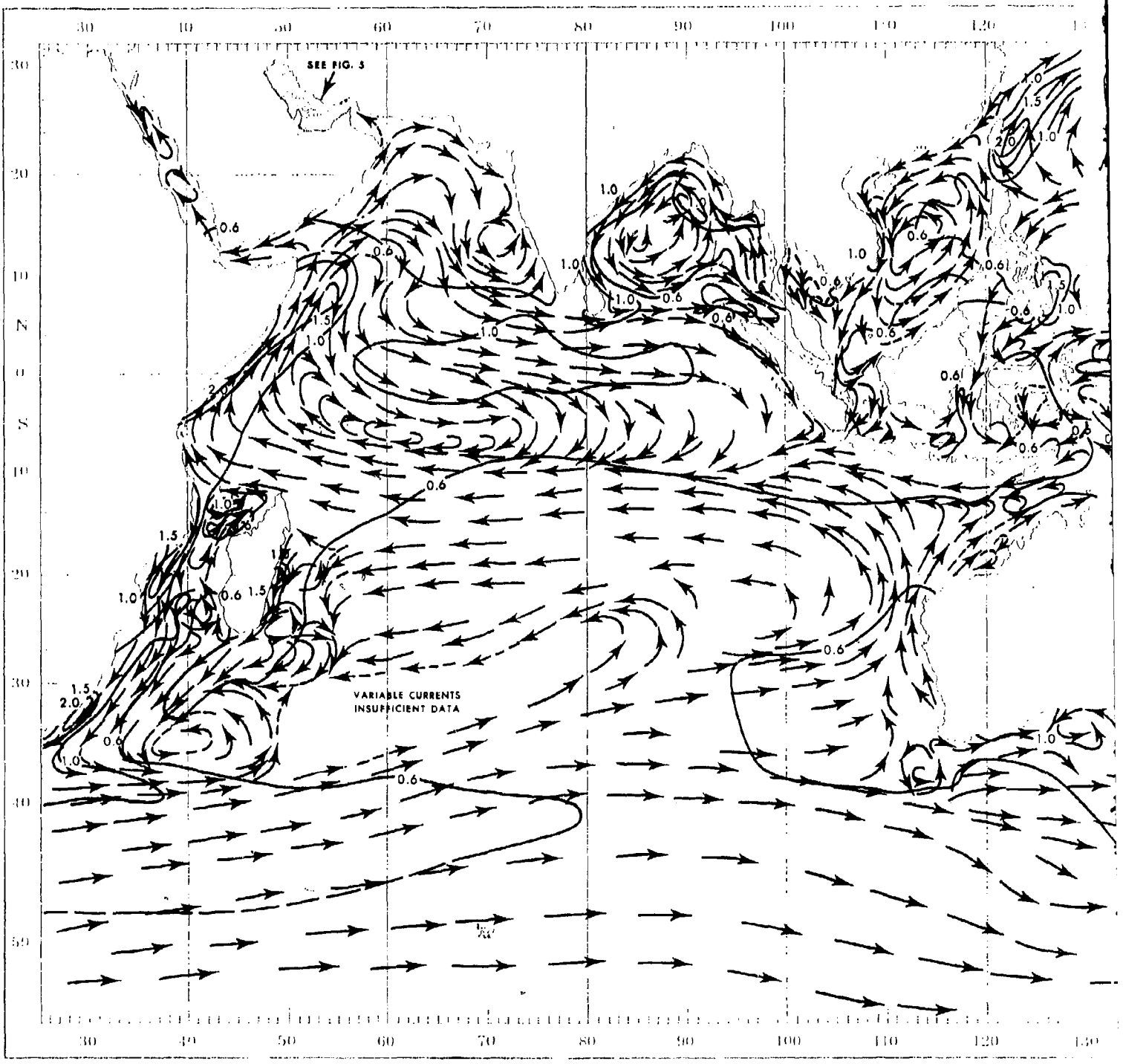


FIG. 4 OCTOBER (TRANSITION) SURFACE CURRENTS



ITION) SURFACE CURRENTS

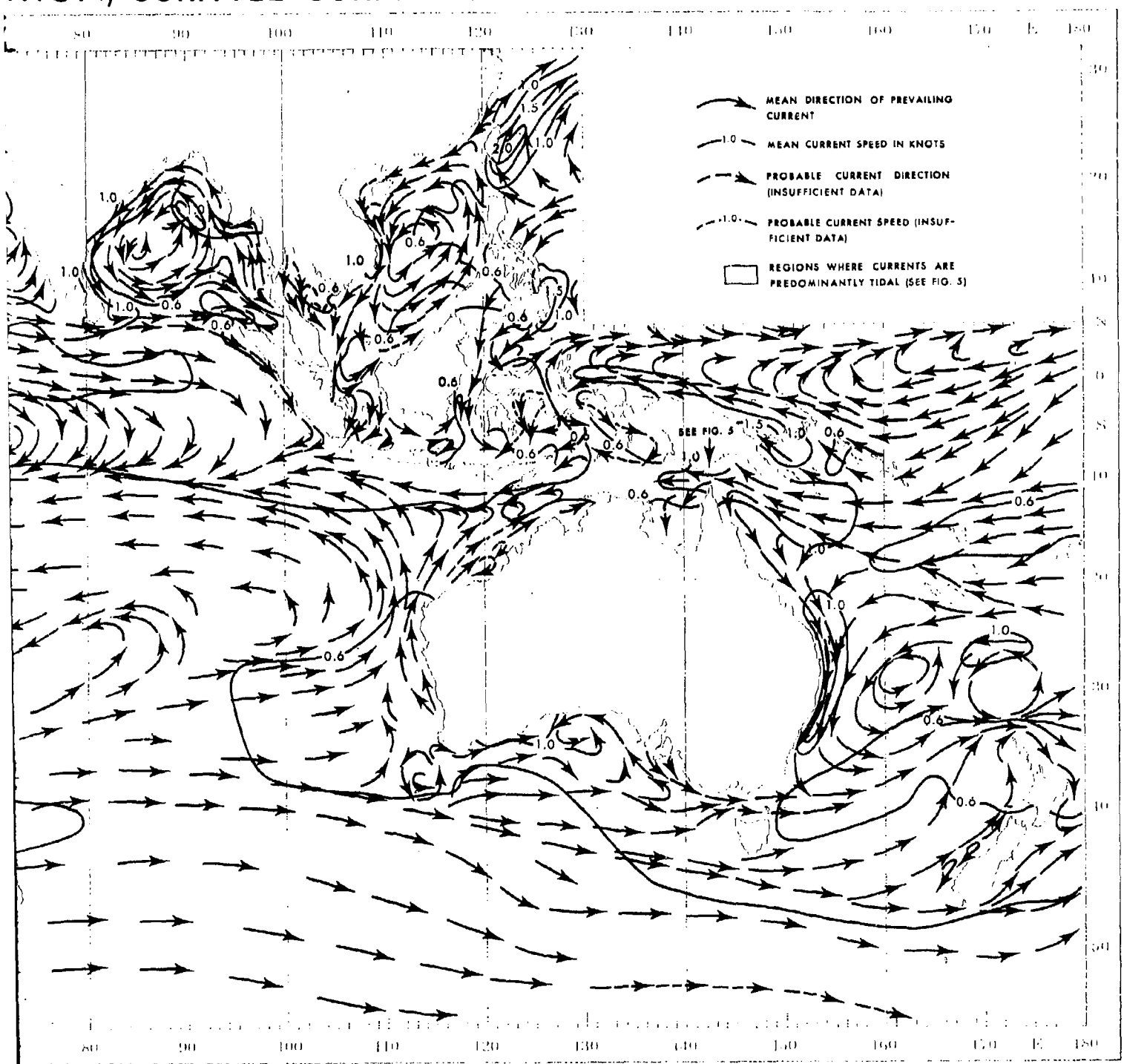
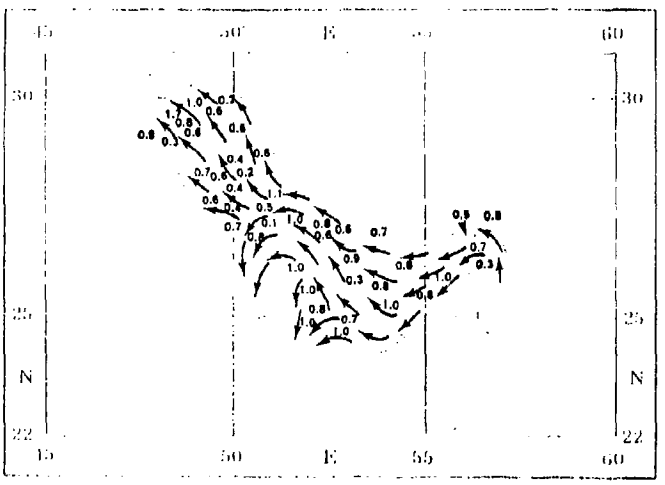


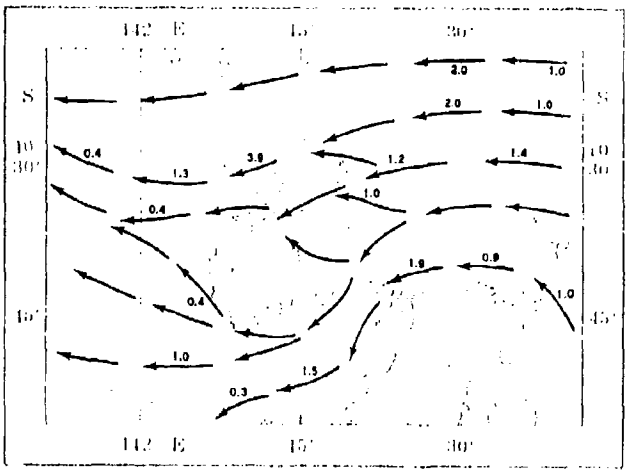
FIG. 5 TIDAL CURRENTS — PERSIAN GULF AND TORRES S

FLOOD OR EBB CURRENT DIRECTION
1.2 MEAN TIDAL CURRENT SPEED IN KNOTS

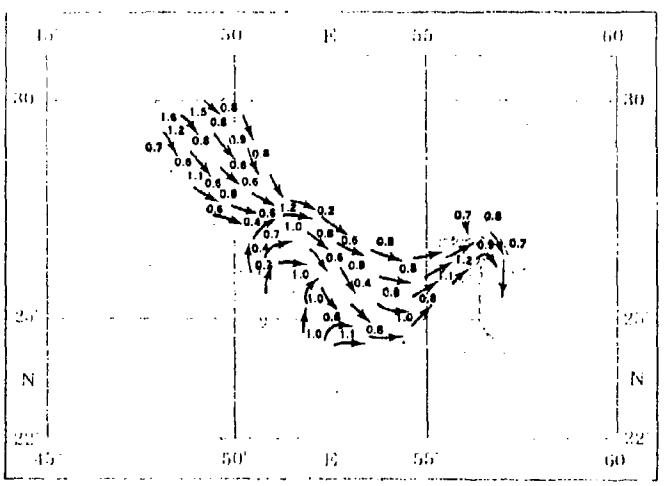
NOTE: THE APPROXIMATE MEAN STRENGTH OF FLOOD AND EBB CURRENTS AT SPRINGS OR TROPICS IS DETERMINED BY MULTIPLYING THE MEAN SPEED BY 1.4; THE APPROXIMATE MEAN SPEED OF FLOOD AND EBB AT NEAPS IS DETERMINED BY MULTIPLYING THE MEAN SPEED BY 0.6.



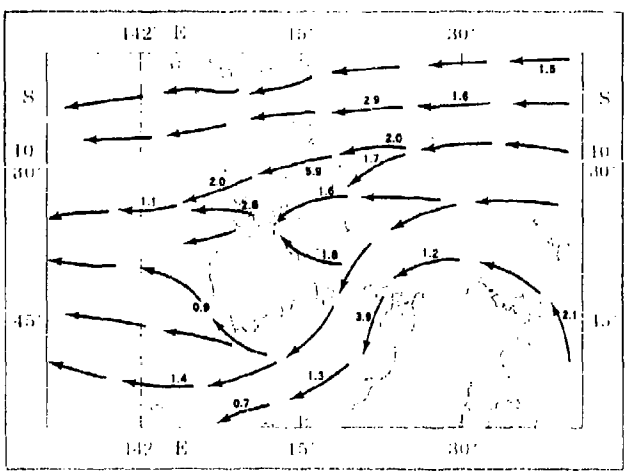
FLOOD CURRENT



FLOOD CURRENT
DECEMBER THROUGH FEBRUARY



EBB CURRENT

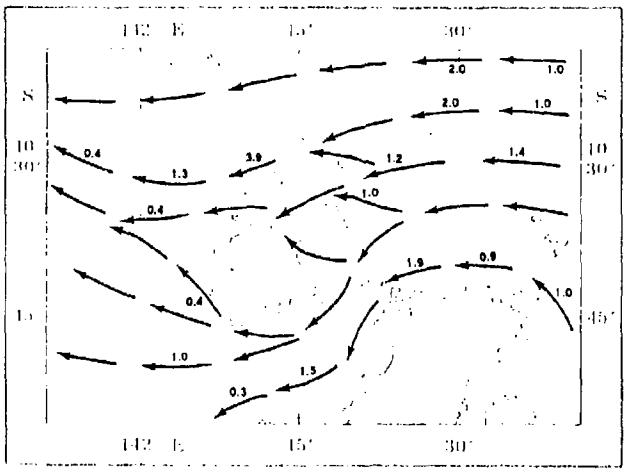


FLOOD CURRENT
MARCH THROUGH NOVEMBER

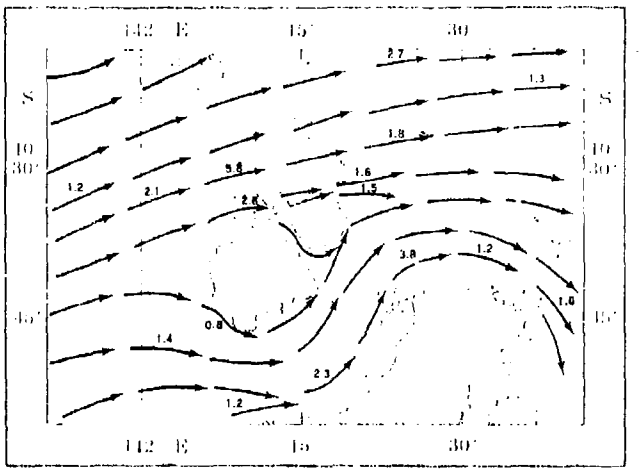
PERSIAN GULF

TORRE

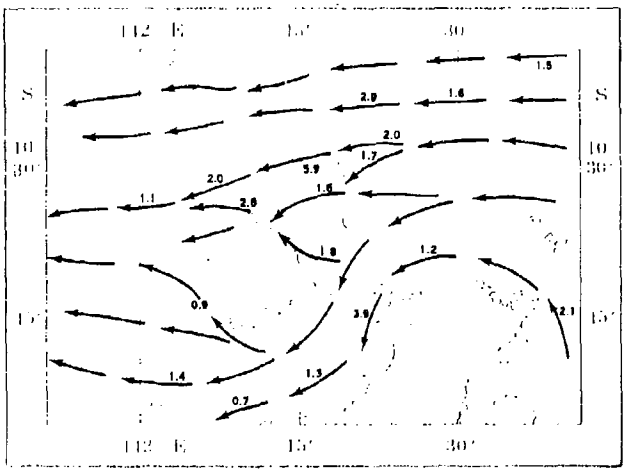
– PERSIAN GULF AND TORRES STRAIT



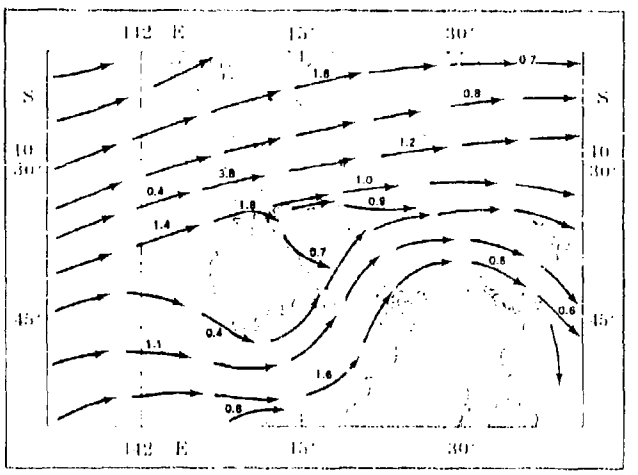
FLOOD CURRENT
DECEMBER THROUGH FEBRUARY



EBB CURRENT
DECEMBER THROUGH FEBRUARY



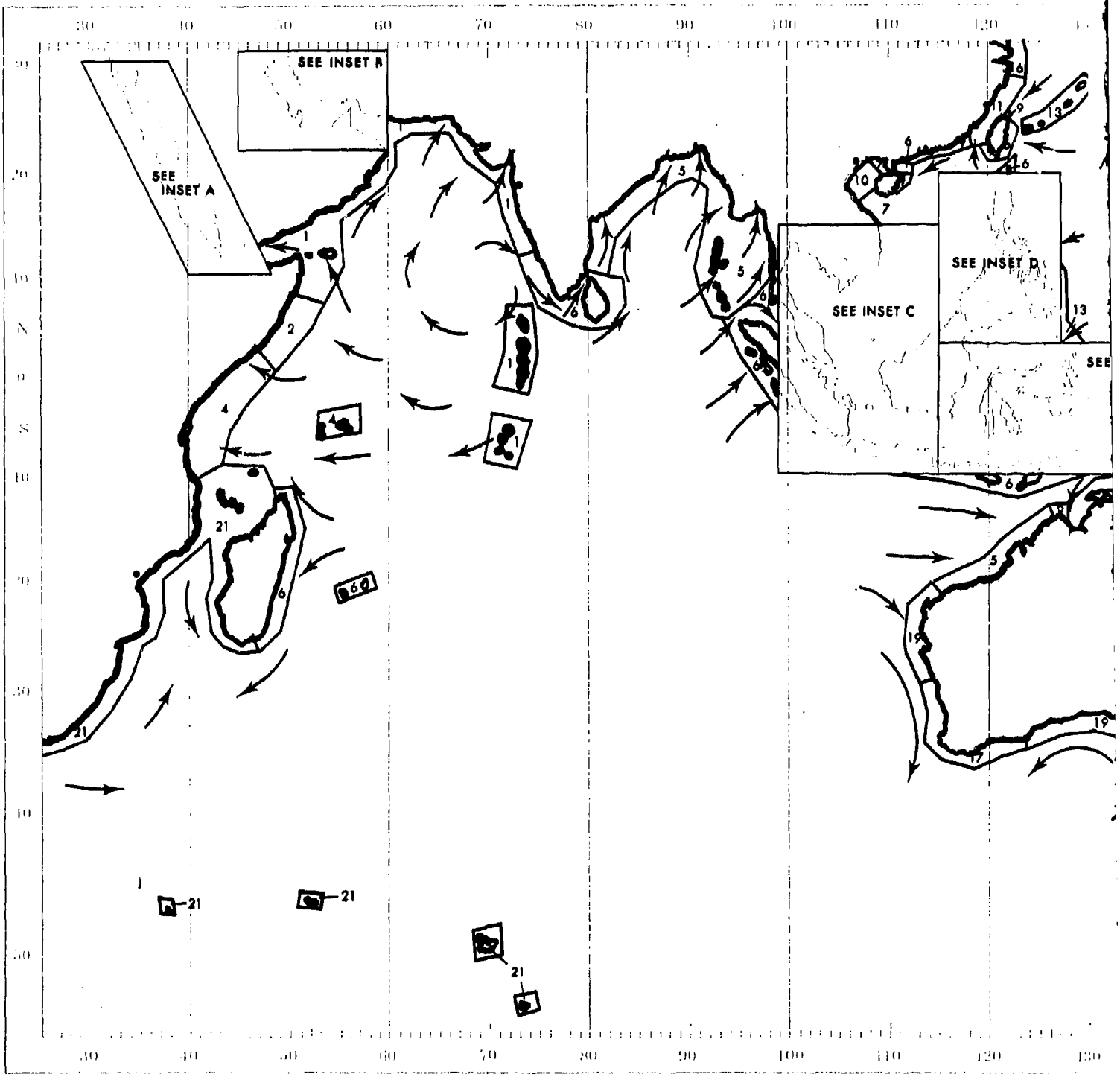
FLOOD CURRENT
MARCH THROUGH NOVEMBER



EBB CURRENT
MARCH THROUGH NOVEMBER

TORRES STRAIT

FIG. 6 TYPES OF TIDES AND LOCATIONS OF TYPICAL TIDE



S AND LOCATIONS OF TYPICAL TIDE CURVES

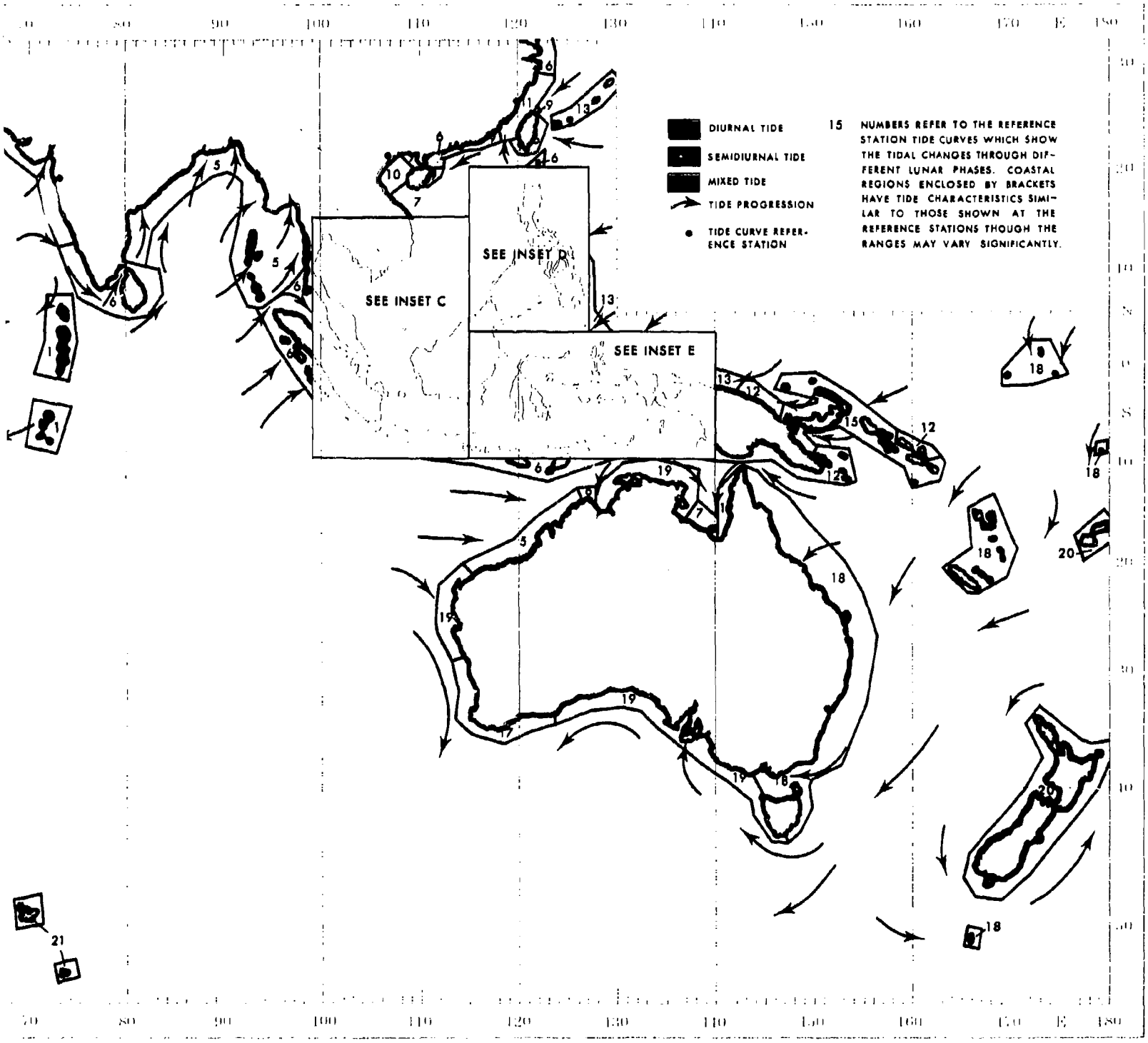
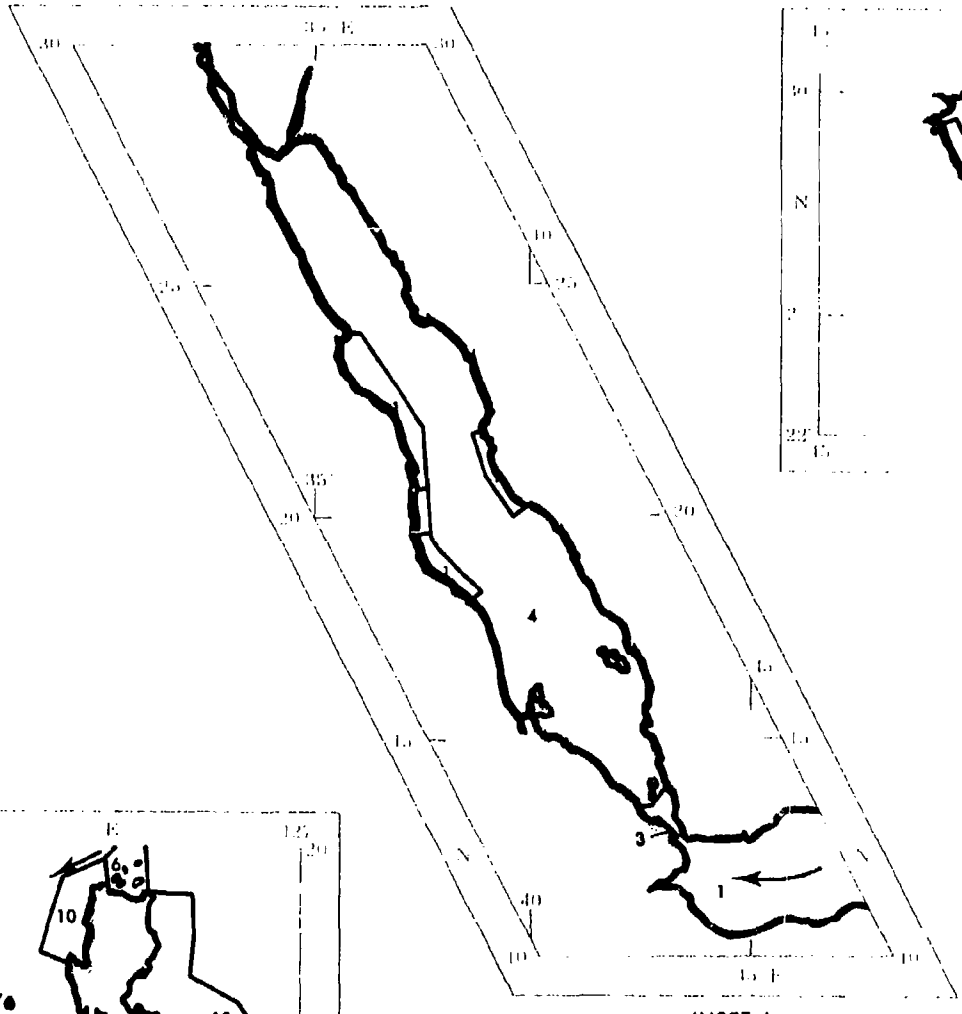
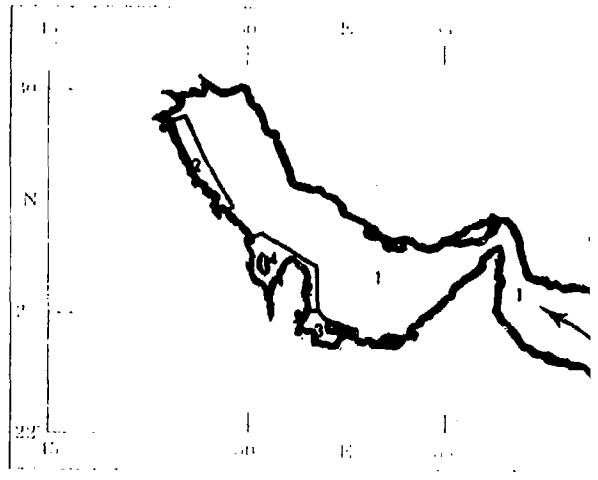


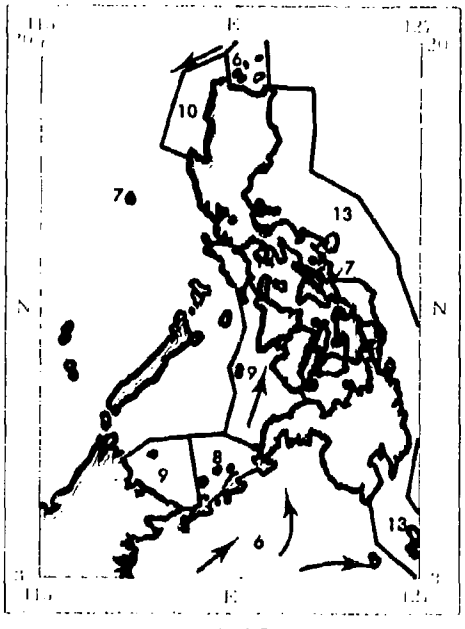
FIG. 6 TYPES OF TIDES AND LOCATIONS OF TYPICAL TI



INSET A

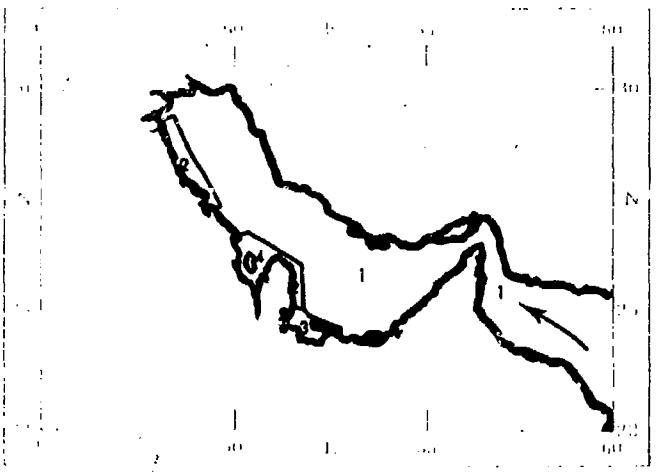


INSET B



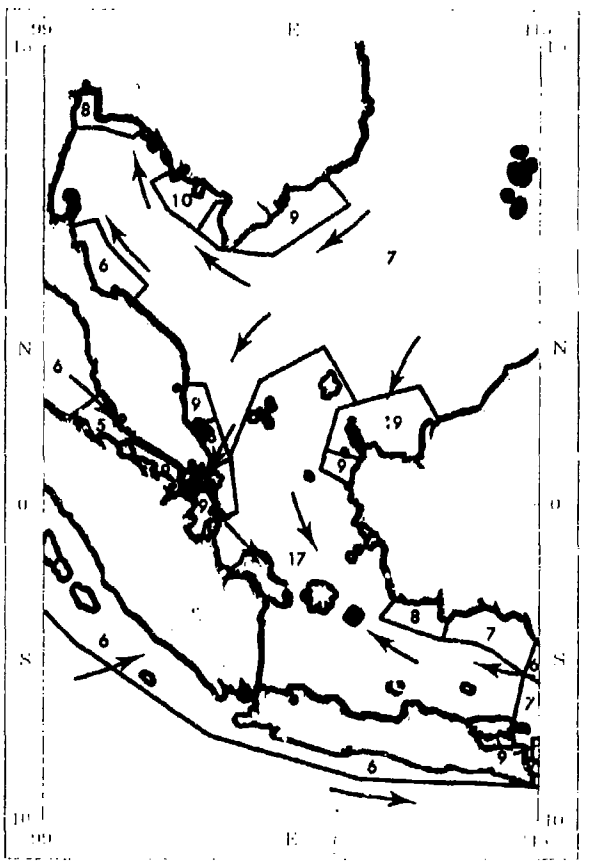
INSET D

AND LOCATIONS OF TYPICAL TIDE CURVES (Cont'd.)

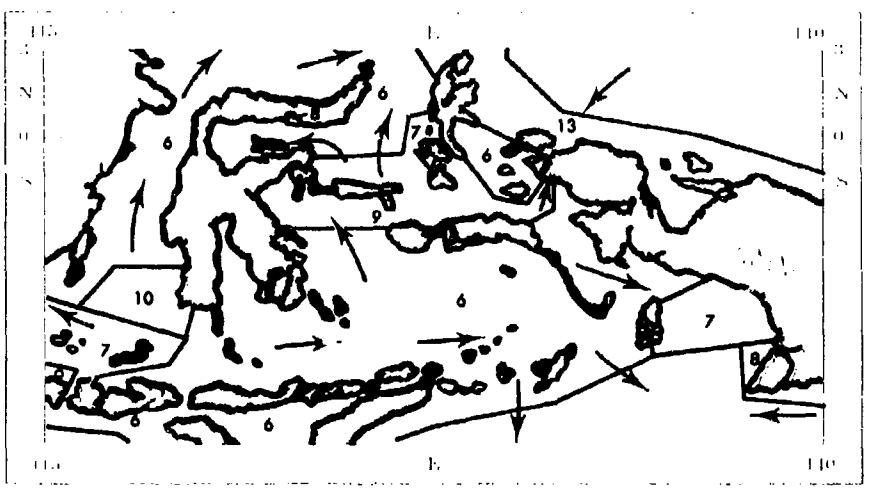


INSET B

INSET A



INSET C



INSET E

FIG. 7 TYPICAL TIDE CURVES

(SEE FIG. 6 FOR LOCATION OF TIDE CURVES)

MSL (MEAN SEA LEVEL)— THE AVERAGE HEIGHT ABOVE DATUM FOR ALL STAGES OF THE TIDE

MLW (MEAN LOW WATER)— THE AVERAGE HEIGHT OF THE LOW WATERS

MHW (MEAN HIGH WATER)— THE AVERAGE HEIGHT OF THE HIGH WATERS

MLLW (MEAN LOWER LOW WATER)— THE AVERAGE HEIGHT OF THE LOWER LOW WATERS

MLWN (MEAN LOW WATER NEAPS)— THE AVERAGE HEIGHT OF THE LOW WATERS OCCURRING NEAR THE TIME OF FIRST OR LAST QUARTER (NEAP TIDES)

MHWN (MEAN HIGH WATER NEAPS)— THE AVERAGE HEIGHT OF THE HIGH WATERS OCCURRING NEAR THE TIME OF FIRST OR LAST QUARTER (NEAP TIDES)

MLHW (MEAN LOWER HIGH WATER)— THE AVERAGE HEIGHT OF THE LOWER HIGH WATERS

MLLW (MEAN HIGHER LOW WATER)— THE AVERAGE HEIGHT OF THE HIGHER LOW WATERS

MHHW (MEAN HIGHER HIGH WATER)— THE AVERAGE HEIGHT OF THE HIGHER HIGH WATERS

MLWS (MEAN LOW WATER SPRINGS)— THE AVERAGE HEIGHT OF LOW WATERS OCCURRING NEAR THE TIME OF NEW OR FULL MOON (SPRING TIDES)

MHWS (MEAN HIGH WATER SPRINGS)— THE AVERAGE HEIGHT OF HIGH WATERS OCCURRING NEAR THE TIME OF NEW OR FULL MOON (SPRING TIDES)

CHART DATUM— THE REFERENCE LEVEL FROM WHICH THE PREDICTED TIDE HEIGHTS ARE MEASURED

● NEW MOON

○ FULL MOON

◐ LAST QUARTER

◑ FIRST QUARTER

A MOON IN APOGEE

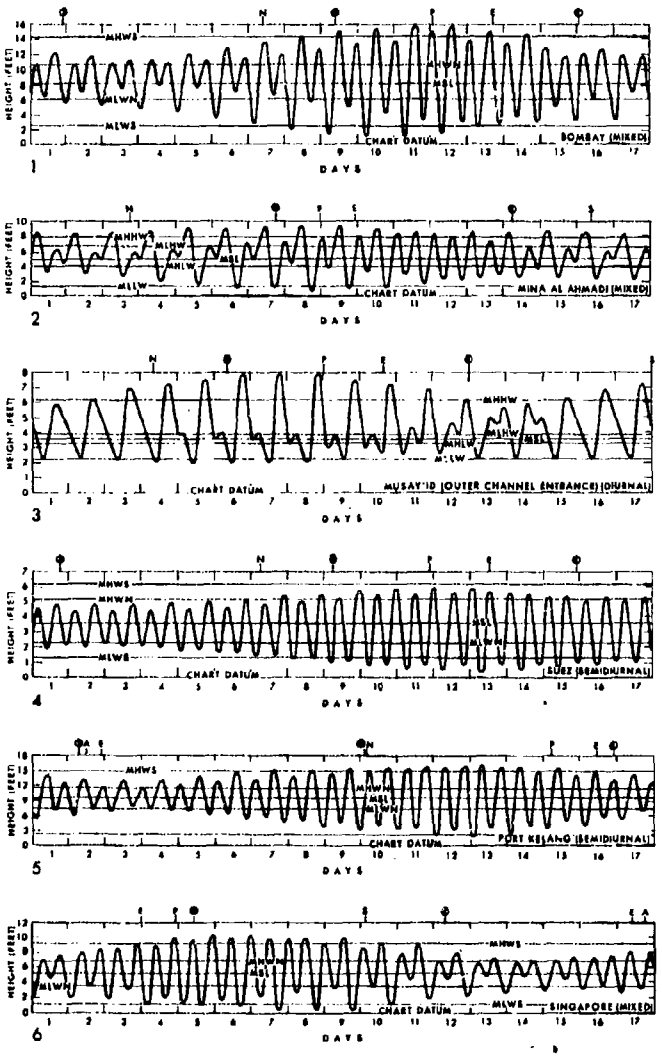
E MOON ON EQUATOR

N MOON FARTHEST NORTH OF EQUATOR

S MOON FARTHEST SOUTH OF EQUATOR

P MOON IN PERIGEE

$\odot_2$ SUN AT SUMMER SOLSTICE



VES

QR LOCATION OF TIDE CURVES)

R NEAPS) – THE AVERAGE HEIGHT OF THE HIGH WATERS OCCURRING NEAR THE TIME OF FIRST OR LAST QUARTER (NEAP TIDES)

H WATER) – THE AVERAGE HEIGHT OF THE LOWER HIGH WATERS

V WATER) – THE AVERAGE HEIGHT OF THE HIGHER LOW WATERS

H WATER) – THE AVERAGE HEIGHT OF THE HIGHER HIGH WATERS

MLWS (MEAN LOW WATER SPRINGS) – THE AVERAGE HEIGHT OF LOW WATERS OCCURRING NEAR THE TIME OF NEW OR FULL MOON (SPRING TIDES)

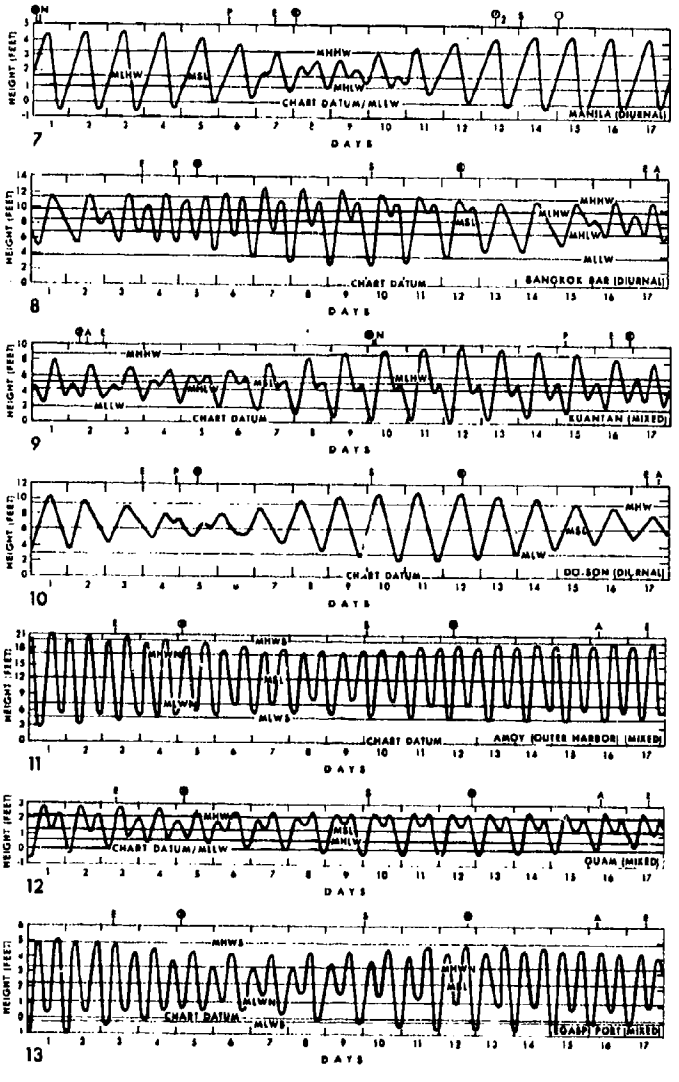
MHWS (MEAN HIGH WATER SPRINGS) – THE AVERAGE HEIGHT OF HIGH WATERS OCCURRING NEAR THE TIME OF NEW OR FULL MOON (SPRING TIDES)

CHART DATUM – THE REFERENCE LEVEL FROM WHICH THE PREDICTED TIDE HEIGHTS ARE MEASURED.

A MOON IN APOGEE
E MOON ON EQUATOR

N MOON FARTHEST NORTH OF EQUATOR
S MOON FARTHEST SOUTH OF EQUATOR

P MOON IN PERIGEE
O_2 SUN AT SUMMER SOLSTICE



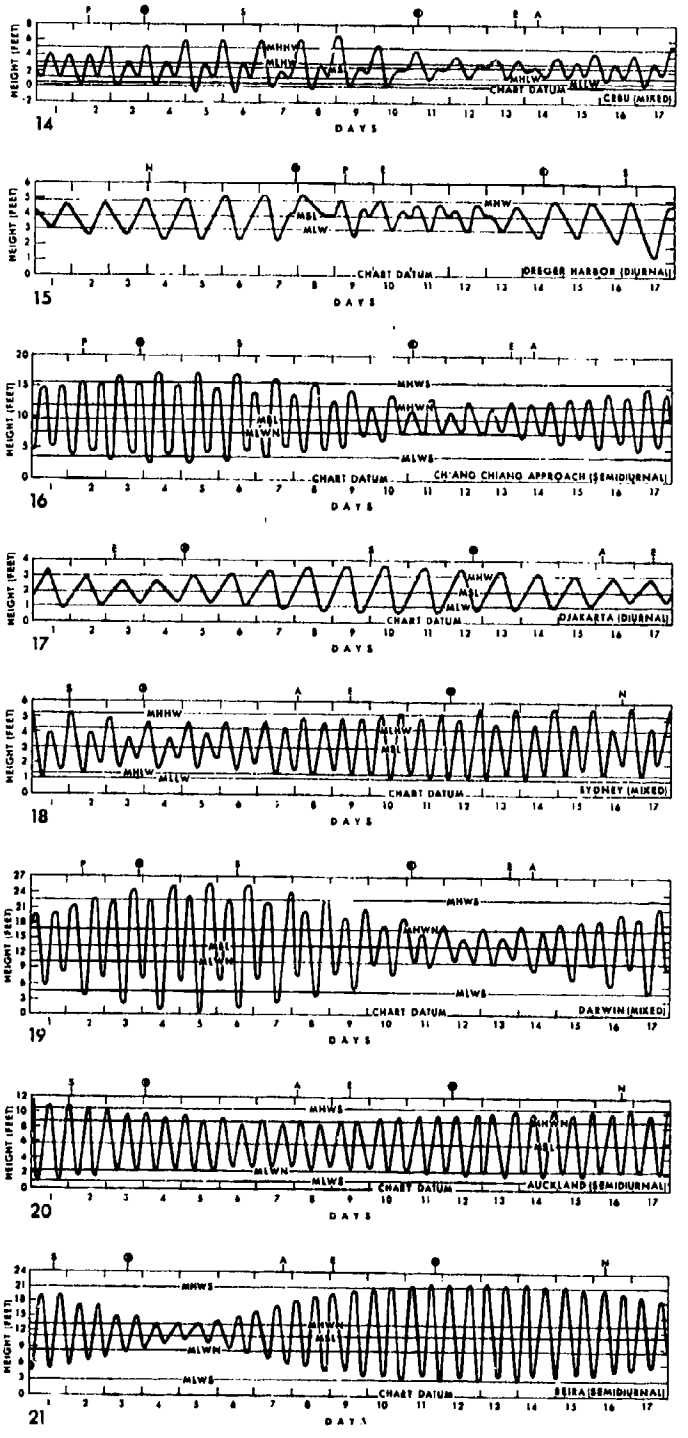
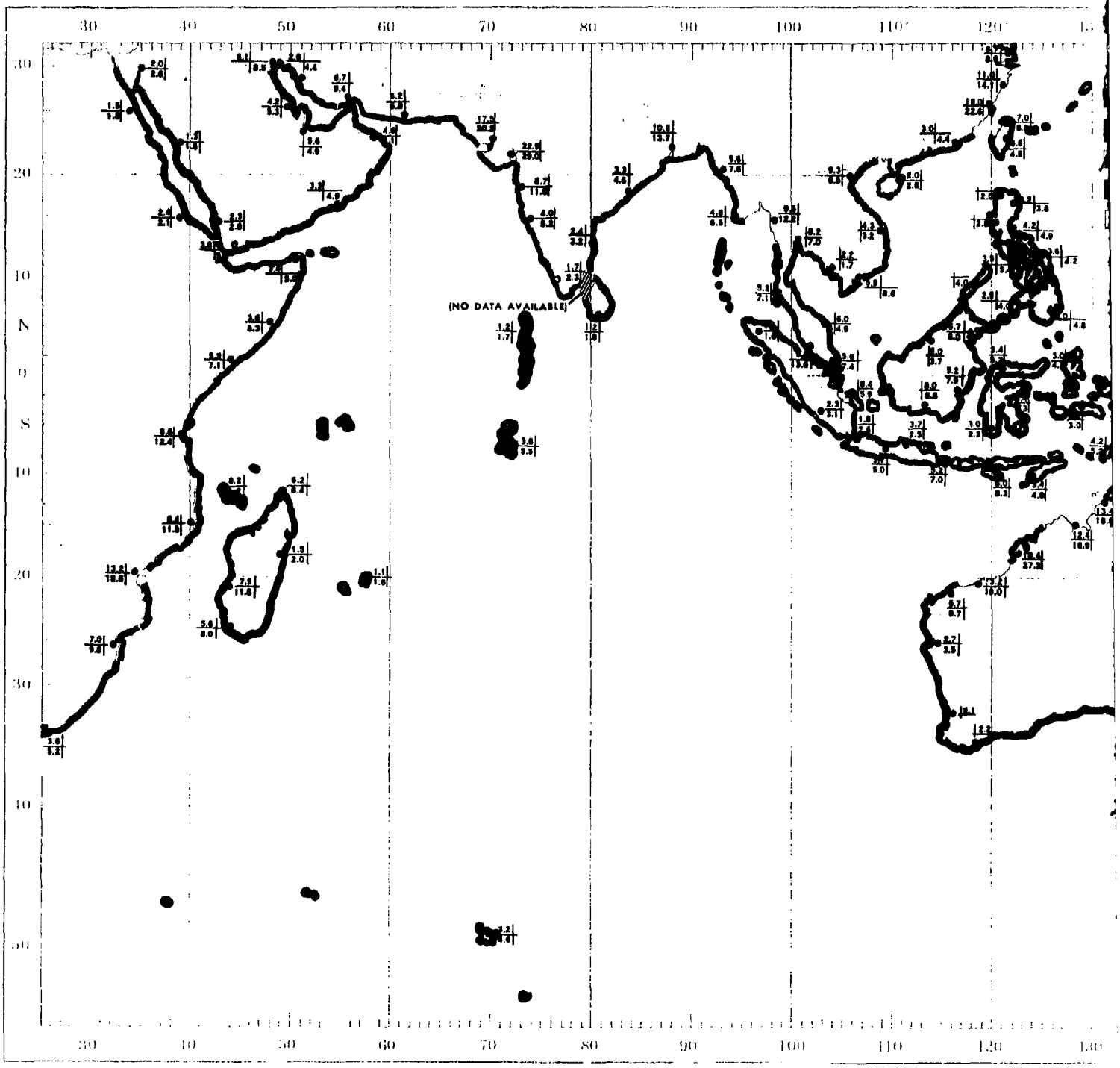
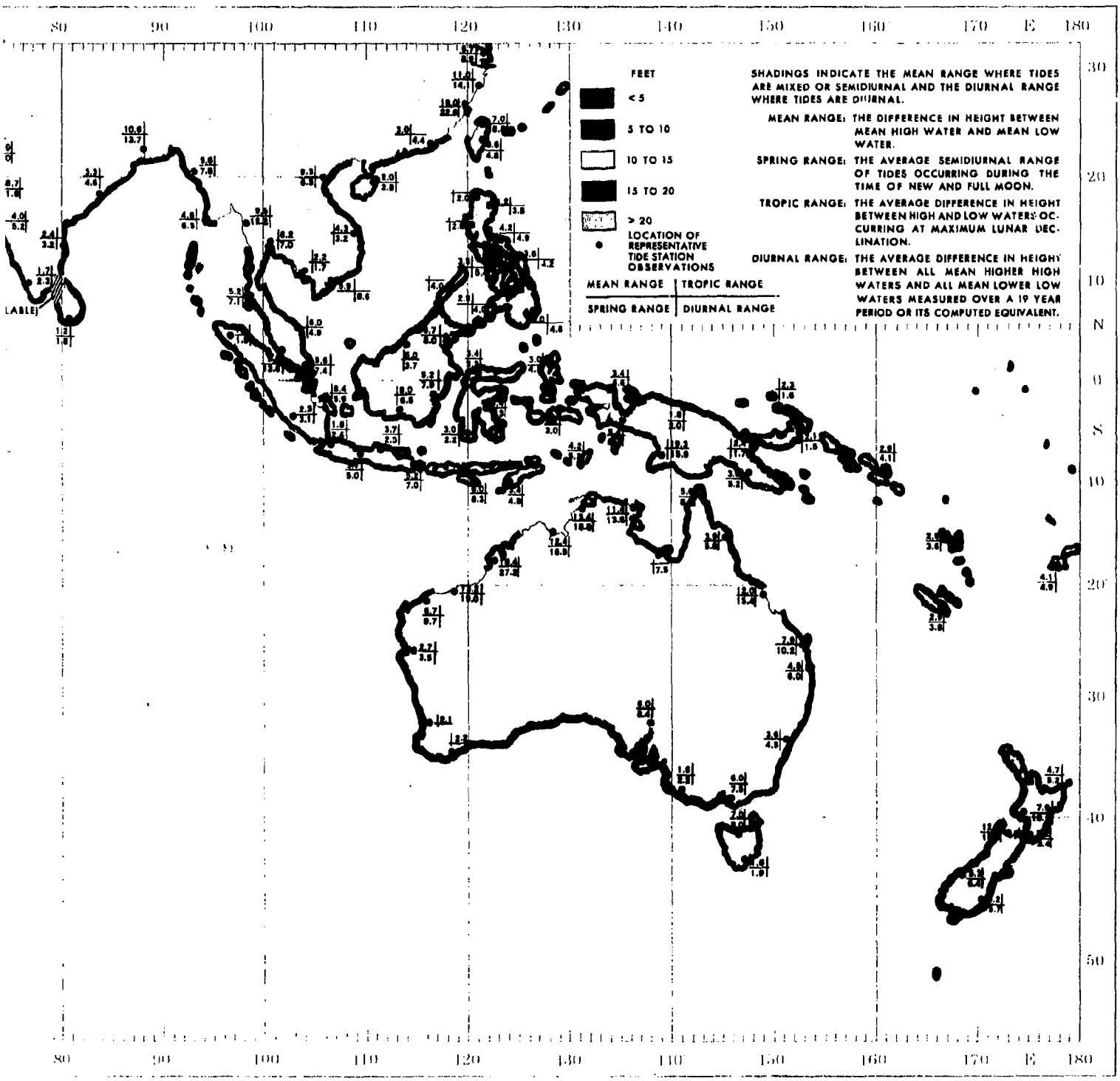


FIG. 8 TIDE RANGES

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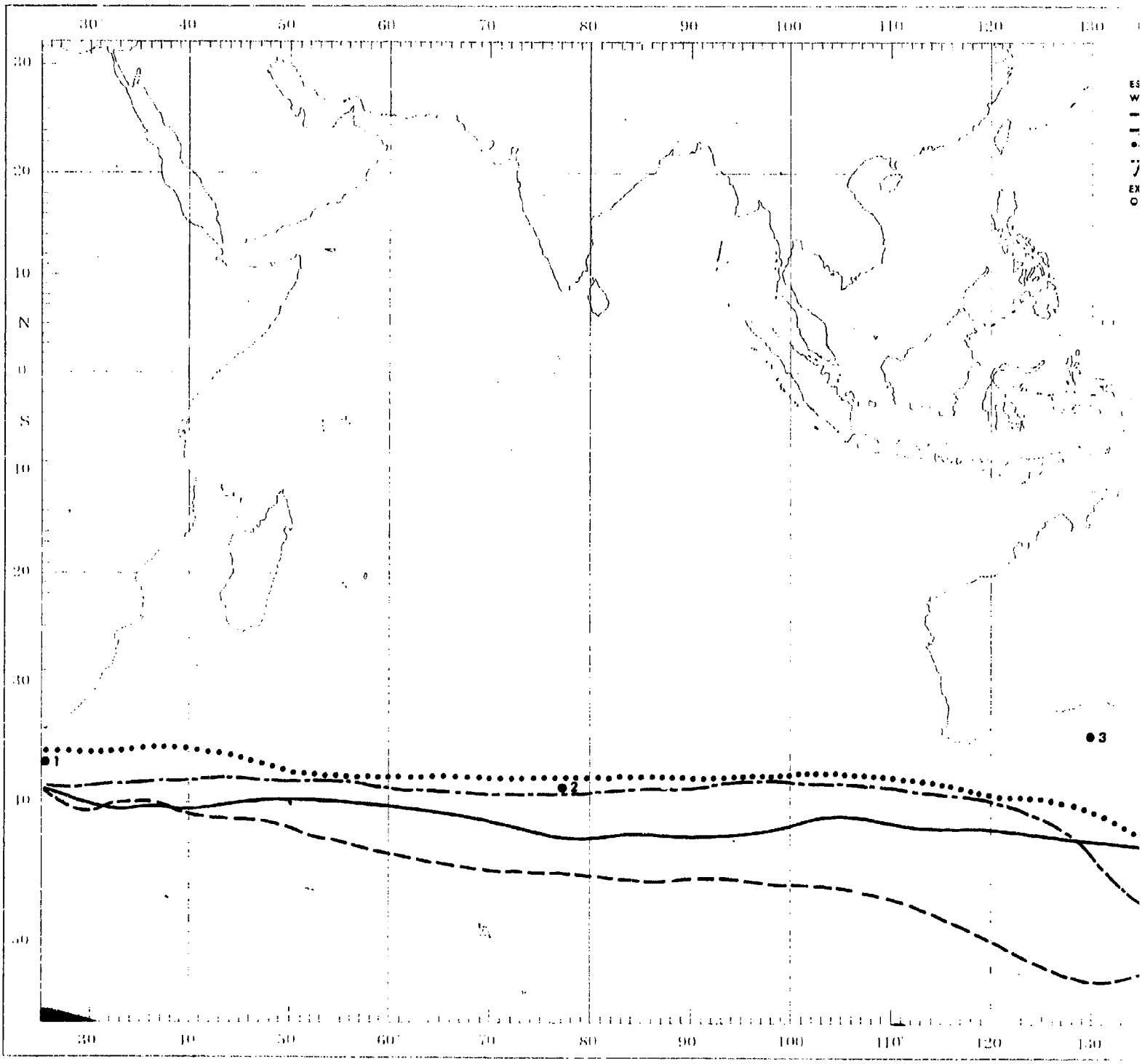
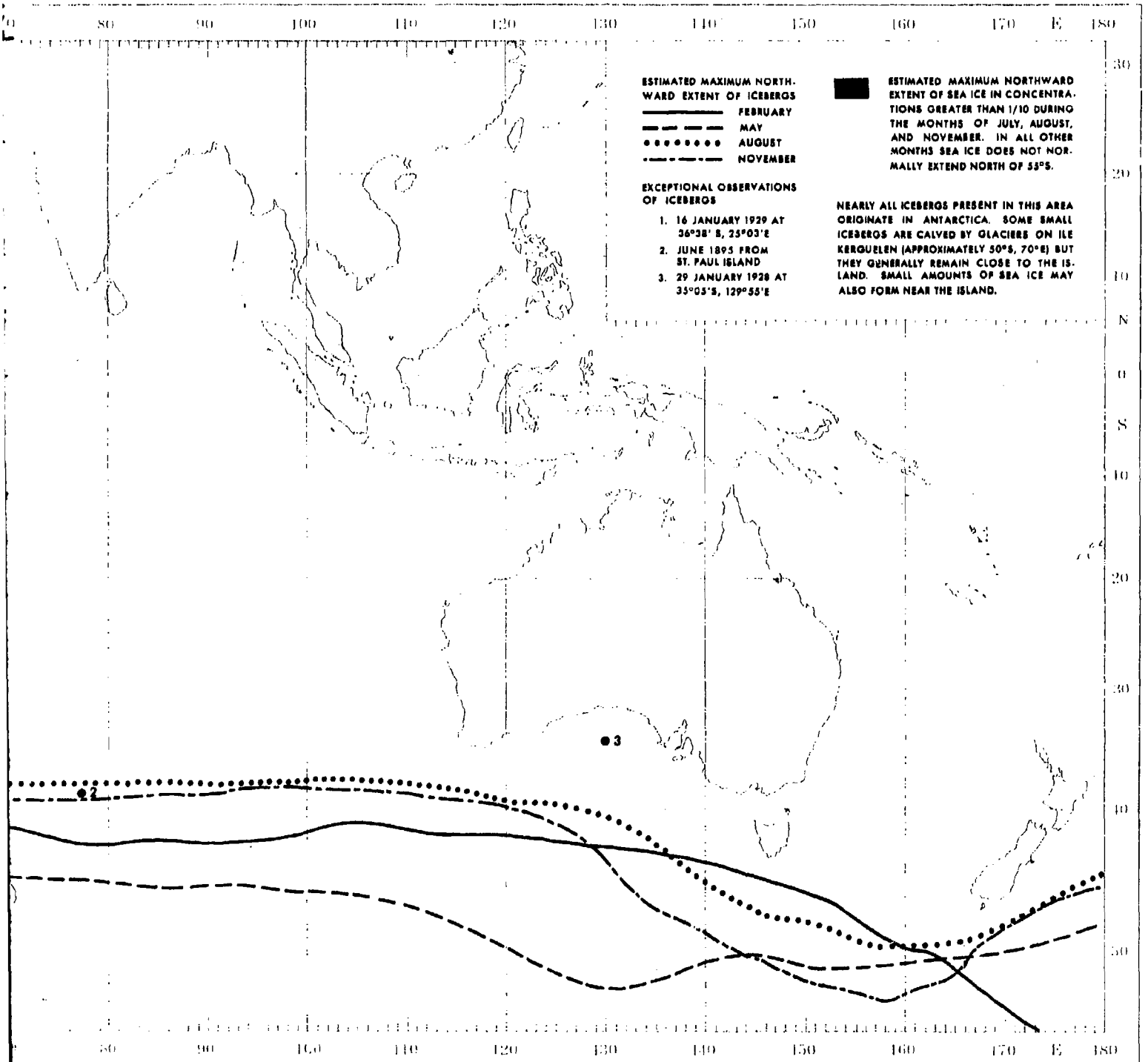
FEET
< 5
5 TO 10
10 TO 15
15 TO 20
> 20
LOCATION OF REPRESENTATIVE TIDE STATION OBSERVATIONS
MEAN RANGE | TROPIC RANGE
SPRING RANGE | DIURNAL RANGE
SHADINGS INDICATE THE MEAN RANGE WHERE TIDES ARE MIXED OR SEMIDIURNAL AND THE DIURNAL RANGE WHERE TIDES ARE DIURNAL.
MEAN RANGE: THE DIFFERENCE IN HEIGHT BETWEEN MEAN HIGH WATER AND MEAN LOW WATER.
SPRING RANGE: THE AVERAGE SEMIDIURNAL RANGE OF TIDES OCCURRING DURING THE TIME OF NEW AND FULL MOON.
TROPIC RANGE: THE AVERAGE DIFFERENCE IN HEIGHT BETWEEN HIGH AND LOW WATERS OCCURRING AT MAXIMUM LUNAR DECLINATION.
DIURNAL RANGE: THE AVERAGE DIFFERENCE IN HEIGHT BETWEEN ALL MEAN HIGHER HIGH WATERS AND ALL MEAN LOWER LOW WATERS MEASURED OVER A 19 YEAR PERIOD OR ITS COMPUTED EQUIVALENT.

FIG. 9 ICE CONDITIONS




ESTIMATED MAXIMUM NORTHWARD EXTENT OF ICEBERGS
FEBRUARY
MAY
AUGUST
NOVEMBER
EXCEPTIONAL OBSERVATIONS OF ICEBERGS
1. 16 JANUARY 1929 AT 36°38' S, 25°03'E
2. JUNE 1895 FROM ST. PAUL ISLAND
3. 29 JANUARY 1928 AT 35°05'S, 129°55'E
ESTIMATED MAXIMUM NORTHWARD EXTENT OF SEA ICE IN CONCENTRATIONS GREATER THAN 1/10 DURING THE MONTHS OF JULY, AUGUST, AND NOVEMBER. IN ALL OTHER MONTHS SEA ICE DOES NOT NORMALLY EXTEND NORTH OF 55°S.
NEARLY ALL ICEBERGS PRESENT IN THIS AREA ORIGINATE IN ANTARCTICA. SOME SMALL ICEBERGS ARE CALVED BY GLACIERS ON ILE KERGUELEN (APPROXIMATELY 50°S, 70°E) BUT THEY GENERALLY REMAIN CLOSE TO THE ISLAND. SMALL AMOUNTS OF SEA ICE MAY ALSO FORM NEAR THE ISLAND.
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